je Kliming Immal,

RAILWAY

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

that No. 1438.—Vol. XXXIII.

M. JAMES CKOFTS, SHAREBROKER,
No. 1, FINCH LANE, CORNHILL. (Established 18 years.)
Mr. CROFTS transacts business, in the way of FURCHASE or SALE, in every description of stocks, but particularly in BRITISH MINES, in no case departing from the position of n broker, at net prices. All orders meet with the utmost punctuality and zeal, and advice given as to the nature and eligibility of INVESTIMENTS, when required, EXCHANGES OF STOCK effected on the most advantageous basis, subject only to one commission.

ommission.
SHARES RECOMMENDED:—Sithney Carnmeal, North Tresketby, Illogan, East
Chiverton, Caradon United, Okel Tor, Billins, East Russell, East Carn Brea, Bryn Gwiog,
Long Rake, East Rosewarne, Ceft Clicen, and Central Minera.

BUYER of Illogan.

** The market, being rather depressed, is in favour of purchasers.

** Apply to Mr. Crofts for shares in Roskearnowth (North Roskear), in 700 shares.

M. Cropt's for shares in Roskearnowth (North Roskear), in 700 shares.

M. R. JAMES LANE, No. 44, THREADNEEDLE STREET,
LONDON, E.C.

JAMES LANE has FOR SALE, at nett prices:—25 Alfred Consols, 17s. 6d.; 10 Bedford
United, £3½; 5 Cook's Kitchen. £27½; 10 Camborne Vean. £3; 10 Caradon United,
£3%; 50 Croby, 26s.; 100 Cornobla, offer wanted; 4 Caradon Consols, £2; 5 Cargoli,
£47½; 20 Drake Walls, £2½; 20 East Wheal Russell, £4½; 20 East Carn Bree, £9½; 12
East Roswarne, £3½; 20 East Jane, £2½; 10 East Caradon, £44½; 65 Furze Hill
Wood, 8s. 6d.; 5 Gonamena, £3; 29 Giasgow Caradon, £3½; 100 Great North Tolgas,
11s.; 50 Great Retalinek, 14s.; 5 Great Wheal Fortne, £47½; 29 Hawkmoor, 5s. 6d.;
29 Hingston Down, £9½; 25 Ladcott, £7½; 20 Lady Bertha, 20s.; 20 Marke Valley,
£3½; 100 North Porthilly, 14s. 6d.; 20 New South Caradon, £3. 6d.; 50 North Miners,
11s. 6d.; 20 North Crofty, £5; 25 North Treskerby, £4; 10 North Phomix, £4½; 50
Pednandrea United, £36. 6d.; 5 Tincroft, £20; 2 West Tolgus, £70; 20 Wheal Harrlett, £3½; 20 Wheal Grenville, £5%; 20 St. Just United; 15 Sithney Carnmoal, £3;
10 Tamar Consols, 20s.; 2 Trelawny, £17½; 20 Teas Side, 12s. 6d.

10 Tamar Consols, 20s.; 2 Trelawny, £17½; 20 Tees Side, 12s. 6d.

TOCK AND SHAREDEA LER.—MR. PETER WATSON,
ENGLISH AND FOREIGN STOCK, SHARE, AND MINING OFFICES, 79,
OLD BROAD-STREET, LONDON, E.C.
RAILWAY, JOINT-STOCK BANKS, DOCK, INSURANCE, CANAL, MINING,
STEAM-SHIP, &c., and EVERY OTHER DESCRIPTION of SHARES BOUGHT
and SOLD at the usual rate of commission, or at nett prices.
TELEGRAPHIC MESSAGES to BUY or SELL Railway, Bank, Mine, and other
Shares and Stocks, panetually attended to on commission, or at nett prices for eash, or
for fortnightly settlements, with advice as to purchase or sales.

Eighteen years' experience.

(Two in Cornwall and Sixteen in London.)

Bankers: Union Bank of London.

MR. LELEAN, 11, ROYAL EXCHANGE, LONDON, E.C., has
FOR SALE the FOLLOWING MINING SHARES, free of commission:

5 Bryn Gwiog, £30%.
50 Lady Berths, 290.64.
16 Tincroft, £19 7s. 6d.

MR. LELEAN, 11, ROYAL EXCHANGE, LONDON, E.C., has
FOR SALE the FOLLOWING MINING SHARES, free of commission:—
5 Bryn Gwiog, £30%.
2 Basset.
40 Ludcott, £7 13s. 9d.
5 Camborne Vean, 37s 9d.
5 Condurrow.
3 Cook's Kitchen, £29%.
5 Condurrow.
40 Cambrian Gold, £1%.
50 Cardigan Cons., 17s. 6d.
1 Devon Great Consol.
40 Drake Walls, 46s. 3d.
50 East Greaville, 50s. 3d.
50 East Sasset, £34 17s. 6d.
20 E. Rosewarne, £3 16 3
50 East Sasset, £34 17s. 6d.
50 East Jane, 52s. 6d.
50 East Jane, 52s. 6d.
50 East Satille, 10s. 6d.
50 Grambler, £17%.
51 Grambler, £17%.
52 Endown Cons., £2 16s.
53 Fendeen Consols, £23%.
54 Gonamena, £3 2s. 6d.
55 Gonamena, £3 2s. 6d.
56 Gramber, £17%.
56 Gramber, £17%.
57 Grambler, £17%.
58 Gramber, £17%.
59 Gonamena, £3 2s. 6d.
50 Gramper, £37%.
50 Sortridge.
50 Sortridge.
50 Sortridge.
51 Stray Park, £37%.
50 Wheal Prosper, 48s. 9d.
51 Hawkmoor, 4s. 6d.
5 Kitty (Lelant), an offer wanted.
58 Kelly Bray, £13. 3d.
59 Conductors.
50 Sortridge.
50 Cart. Hooper, 19s. 6d.
50

wanted. 70 So. Car. Hooper, 195 6d 20 Wheat Crebor, 278. 6d, 25 Kelly Bray, 21s. 3d. 2 South Basset.

N.B.— Mr. Lelean requests that all shares for sale be sent in on Thursday evening the latest, to insure their insertion.—March 13, 1863.

WILLIAM SEWARD, MINING BROKER, STOCK AND SHAREDEALER, 31, THROGMORTON STREET, LONDON, E.C. Commission, 1¼ per cent. en all transactions.

OHN RISLEY, 32, LOMBARD STREET, LONDON, E.C. SHARES in MINES BOUGHT and SOLD on commission, at 11/4 per cent. (for mediate cash. Bankers: London and Westminster, Lothbury.

CHARD CLIFT, MINE SHAREDEALER late of Redruth, now 48, THREADNEEDLE-STREET, LONDON, where an are to be addressed.

Copper Hill, £34.
East Rosewarne, £3 17a6d
East Caradon, £44%.
E. Gunnis Lake, 38s.
East Basset, £344.
East Carn Brea, £9 10s.
ynd is a BUYER of—
Wendron Consols, £144.
Wheal Edward, £236.
Wheal Margaret, £33.
farch 13, 1863.

MR. T. ROSEWARNE, 81, OLD BROAD STREET,

LONDON, E.C., has FOR SALE:—

Basset and Grylis, £26.
Condutrow, £25.
Camborne Vean, £3½.
Copper Hill, £31.
Copper Hill, £31.
North Robert, 21s.
Wheal Roseth, £37½.
North Roskear, £42.
East Caradon, £41½.
East Caradon, £41½.
East Caradon, £41½.
South Tolgus, £67.
South Tolgus, £67.
South Crofty, £28.
Wheal Elward, 55s.
Wheal User Copper Hill, £31½.
Wheal User Copper Hill, £31½.
Wheal Caradon, £41½.
East Caradon, £41½.
East Caradon, £41½.
East Caradon, £41½.
East Caradon, £41½.
South Tolgus, £67.
Wheal User Copper Hill, £51½.
Wheal User Copper Hill Harriett, £31½.
Wheal Grenville, £51½.
Wheal Buller, £62.

Wheal Kitty, £4¾. East Russell, £4½. West Tolgus, £66. Bankers: Bank of London.

MESSRS. WARD AND JACKMAN, STOCK AND SHAREBROKERS, 2, ADAM'S COURT, OLD BROAD STREET, AND MINING EXCHANGE, LONDON, E.C.

TRANSACT BUSINESS IN BRITISH AND FOIEIGN MINING SHARES and OTHER SECURITIES at closest prices, net or on commission, but not being dealers only execute orders confided to them.

Telegraphic messages to buy or sell shares of every description promptly executed for immediate cash, or the fortnightly settlements.

March 13, 1862. Semission, 14, per cent. on all transactions.

March 13, 1862. Bankers: London and Westminster, Lothbury.

TOSEPH GREGORY, STOCK AND SHAREBROKER, 2, HATTON COURT, THREADNEEDLE STREET, LONDON, E.C. Commission on purchase and sale of mining shares, 1½ per cent.

Bankers: City Bank.

MR. THOS. THOMPSON, MINING OFFICES,

12, OLD JEWRY CHAMBERS, LONDON, E.C.

Mr. THOMPSON has the means of obtaining the very first information, and is fully capable of giving the best advice, either for investment or speculation.

MESSRS.R. HORLEY AND CO., SWORN STOCK, SHARE, and MINING BROKERS, 45, CORNHILL, E.C., (late of 2, Royal Exchange-buildings), TRANSACT EVERY DESCRIPTION OF MINING BUSINESS, on commission only, and are in a position to obtain reliable information respecting all dividend and progressive mines.

N.B.—Messrs. Honger and Co. publish a Weekly Mining List, with theelosing pricer wednesday, and will be most happy to forward the same (gratis) on application.

wery Wednesday, and will be most happy to forward the same (gratis) on application.

M. R. GEORGE BUIDGE, SHAREBROKER, No. 4, ROYAL
EXCHANGE BUIDGE, SHAREBROKER, No. 4, ROYAL
SALE at nett prices: -5 North Rosker, £69; 55 Cast Rosewarne, £3%; 50 Trumpet
United, 10s.; 45 Kelly Bray, 20s.; 15 East Caradon, £41½; 50 Great Wheal Vor, £7;
100 Yudanumtiana, £4½; 70 North Dolcoath, £2½; 40 Wheal Grenville, £5%; 135
Gonamenn, £3%; 150 Garreg; 2 Wheal Seton, £252; 1 Wheal Buller, £67; 10 North
Trakerby, £3%; 1 Cooper Hill, £95; 3 South Tolicus, £67; 20 Wheal Agar, £9½; 50
Pedn.an.drea, 22s.; 100 Hawkmoor, 4s. 6d.; 60 Drake Walls, £3%; 10 Long Rake, £21;
2 Stray Park, £39½; 40 North Buller, £3%; 15 Wheal Agar, £9½; 50
Pedn.an.drea, 22s.; 100 Molland, 3s. 6d.; 100 St. David's, 16s. 9d.; 25 Okei Tor; 60 Wheal
Zeward; 100 Wheal Crobor, 20s.; 70 Gawton, 11s. 6d.; 100 Redomor, 7s.; 75 Buller
and Basset, 10s.; 30 Great Caradon; 50 Alfred Consols, 20s.; 50 Cornulus, 25s.; 50 Tees
Side, 12s; 130 Tamar Cons., 22s. 6d.; 10 Tincrofe; 45 Lady Bertha; 35 North Robert,
21s.; and 50 St. Day, 10s. 9d.

G E O R G E M O O R E, In any business that GROSCO MOORE is favoured with, in which he is the buyer, he will give CASH ON RECEIPT OF TRANSFER.

LONDON, SATURDAY, MARCH 14, 1863.

AMES HERRON has FOR SALE the following SHARES, at the prices quoted, and FREE OF COMMISSION:—
10 Aberfiryd. 30 Lady Bertha, 18s. 6d.
5 Bryn Gwice. 33 Cady Bertha, 18s. 6d.
5 Cook's Kitchen, £28. 30 Karke Valley. 20 Marke Valley. 20 So. Car. Hooper, 17s. 3d. 20 Carn Bres. £63. 2 Mount Fleasant. 20 Marke Valley. 20 So. Car. Hooper, 17s. 3d. 20 Carndon Consols. 30 Montes Aureos. £2 17 6. 20 Carndon Consols. 30 Montes Aureos. £2 17 6. 20 Carndon Consols. 30 Montes Aureos. £2 18 60 Cambrian Gold. 1 New Seton, £140. 20 Cardigan Consols, 16s 9d 50 Cambrian Gold. 1 New Seton, £140. 5 North Minera. 50 Competing, £175. 50 Drake Walls, £2 5s. 6d. 5 North Micora. 50 Don Pedro North del No. Downs, £2%. 10 North Crofty, £5 Is. 3d. 10 East Carn Brea. £94. 50 North Minera. 50 Vale of Towy. 20 Vigra and Clogau. 10 North Crofty, £5 Is. 3d. 10 East Carn Brea. £94. 50 North Minera. 50 Vale of Towy. 20 Vigra and Clogau. 10 North Crofty, £5 Is. 3d. 10 North JAMES HERRON has FOR SALE the following SHARES, at

20 Keily Bray, 209.

And is a BUYER of 10 Wheal Buller at £68 each; 5 East Darren, £52; 20 Polbren £13½; 50 Caistock Consols, 10s.; 10 Bryn Gwiog, £31½.

Residents in the country having frequently complained of the difficulty experienced in obtaining accurate quotations, I have determined to issue a daily price-list, which will be forwarded post free to all subscribers on payment of one guinea per annum 1, 2, Adam's-court, Oid Broad-street, March 13, 1863.

STREET, LONDON, E.C., MINING ENGINEERS, INSPECTORS of MINES, COMMISSION, and GENERAL AGENTS for the PURCHASE or SALE of MINESHARES, RAILWAY, and EVERY OTHER DESCRIPTION of STOCK.

Commission on sharetransactions 1½ per cent. on £100 and above, and 2½ percent.

M. R. E. D. W. A. R. D. C. O. O. K. E., S. H. A. R. E. B. R. O. K. E. R., the merits of the various mines currently dealt in.

FOR SALE, 50 East Wheal Jane, £2 7s. 6d. nett., Bankers: London and Westminster, Lothbury.

MR. BATTERS strongly recommends his friends to buy Tincroft shares for investment, as being perfectly fee from A shares for investment, as being perfectly free from speculation, will pay good interest for money, and steadily advance in price. Unions are good to buy. Illogan Mines and North Croftys are deserving of attention. East Cara Breas were never so safe to buy as at present. Wheal Seton is the prize of the year. Shareholders in North Roskear and other good mines are cautioned against circulars professing to give disinterested information, but strongly recommending selling out, with a view of investing in unsaled/arabbish, or some pet scheme of the poacher.—5, Cowper's-court, Birchin-lane, London.

ORTH CROFIL.—Inis lines is destined to occupy ere long of first place in the list of the successes of the rich Delocath district. A few month ago these shares were £8½; now £4½. The mine is looking better now than whee shares were £8, the returns are being largely increased, and under the able managemen of Capt. J. Vivian dividends will ere long be commenced. For permanence there are n mines like this extraordinary run; shares should be immediately bought. For furthe particulars see article in Mr. J. Y. Watson's 19th Annual Review of Mining. 1 1/1/2, 5, Cowper's-court, Birchin-lane, London March 13, 1863.

G. BATTERS.

MR JOHN METHERELL, MINE SHARE DEALER, 2, BIRCHIN LANE, CORNHILL, LONDON, E.C.
Mr. J. METHERELL, having been practically engaged in mining for the post 30 years, is enabled to give sound advice as to dealing in shares.

Telegraphic orders punctually attended to.

MR. G. D. SANDY, STOCK AND SHAREDEALER, 48,
THREADNEEDLE STREET, LONDON, E.C.
Daily price list may be had on application.

POR SALE:

Description:

Daily price list may be had on application.

20 Drake Walls, £2%.

MR. H. WADDINGTON, MINING AND SHAREBROKER, 74, OLD BROAD STREET, LONDON, E.C. MINING SHARES BOUGHT AND SOLD At the usual commission. RAILWAY, BANK, and OTHER SHARES at Stock Exchange rates.

MR. E. GOMPERS, MINING OFFICES, S. CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C. BUSINESS TRANSACTED IN SRITISH and FOREIGN STOCKS and SHARES. Terms, 1½ percent.—Bankers: London and Westminster Bank.

CEORGE RICE, SHAREBROKER, 1, FINCH LANE, CORNHILL, LONDON (29 years' experience).

Is a SELLER of—
20 Drake Walls, £2\\(\frac{1}{2}\).

15 East Russell, £4\(\frac{1}{2}\).

20 East Carn Brea, £9\(\frac{1}{2}\).

50 North Crofty, £4\(\frac{1}{2}\).

50 Rosewarne United, 18s

10 East Rosewarne, £3\(\frac{1}{2}\).

50 Rosewarne United, 18s

10 Marke Valley, £3\(\frac{1}{2}\).

21 Stray Park, £2\(\frac{1}{2}\).

22 Wheal Edward, £2\(\frac{1}{2}\).

23 Wheal Beaton, £2\(\frac{1}{2}\).

23 Wheal Beaton, £2\(\frac{1}{2}\).

24 Wheal Edward, £2\(\frac{1}{2}\).

25 Wheal Beaton, £2\(\frac{1}{2}\).

26 Wheal Ludcott, £7\(\frac{1}{2}\).

10 Marke Valley, £536. 100 Redmoors, 7s. 10 Wheal Luds
BUYER of the above shares at a small difference or commission
Shareholders and speculators in the above market mines may secure go
avert great losses by taking a little "private" advice of Gronge Rice befor
Beware of the "sensation" writers!

Bankers: Bank of London.

MESSRS. VIVIAN AND REYNOLDS, 68, OLD BROAD

M. R. C. POWELL, MINE SHAREBROKER,
2, ROYAL EXCHANGE AVENUE, LONDON, E.C.
C. POWELL's office adjoins the Mining Exchange, and from his long experience in and
thorough knowledge of the market, he is enabled to act promptly, and to the interest
of his clients, on all orders with which he may be favoured, either by post or telegraph.
Mines inspected and reported on by competent agents, and advice given as to what
shares should be bought or sold.—Bankers: City Bank, Finch-lane.

MR. GEORGE BATTERS, of No. 5, COWPER'S COURT, BIRCHIN LANE, DEALER IN BRITISH MINING SHARES and OTHER SECURITIES, from long experience and intimate acquaintance with all mining stocks, can advise as to investment of capital at closest market prices. South Caradon, East Caradon, Cook's Kitchen, Providence, Marke Valley, East Cara Bren, Union, North Crofty, North Roskear, &c., are sound investments and good to buy.

NORTH CROFTY.—This mine is destined to occupy ere long a first place in the list of the successes of the rich Dolconth district. A few months

5, Cowper's court, Birchin-lane, London, March Lo, 1009.

MR. E. BEAZLEY, MINING AND GENERAL BROKER,
1, BANK CHAMBERS, LOTHBURY, LONDON, E.C.
E. BEAZLEY recommends for Immediate Purchase, for Investment, North Roskear,
North Crofty, East Chiverton, North Pool, New Seton, East Seton, East Cern

50 E. Rosewarne, £334.
40 No. Dolcoath, £3 8s. 9d.
10 Wheal Grenville, £5%.
5 Tolvadden, £3.
60 Vale of Towy, 7s. 3d.
10 Ludcott, £7\u03c4.
March 13, 1863.

MR. T. P. THOMAS AND SON'S NEXT SALE OF MINING SHARES will be HELD at Garraway's Company

(SUPPLEMENT) STAMFED.....SIXPENCE. UNSTAMPED..FIVEPENCE.

M. R. T. P. THOMAS AND SON'S NEAT SALE OF MINING SHARES will be HELD at Garraway's Coffee-house, Change-alley, Cornfill, on THURSDAY, the 9th April, at One o'clock, when the following shares will be put up FOR SALE.

80 Gurlyn.

10 West Stray Park.

80 Treloweth.

10 West Trevelyan.

80 Great Caradon.

10 East Caradon.

10 Stray Park. 10 West Stray Park.
50 North Minera.
89 Great Caradon.
25 Dyfingwm.
50 Central Minera.
25 Cefn Clicen.
10 Pant-y-Pydew.
offering shares at this sai 5 Stray Park.
20 Carnewas.
20 Pollard.
18 Nangiles.
50 Crookhaven.

100 West Trevelyan, 89 Great Caradon. 5 Stray Park.
50 Crolwin. 25 Dyfingwin. 20 Carmewas.
25 East Cara Brea. 50 Central Minera. 20 Pollard.
2 Seton. 18 Nanglies.
2 North Roskear. 10 Pant-y-Pydew. 50 Crookhaven,
50 Crookhaven, 50 Crookhaven,

MR. T. E. W. THOMAS, MINING AGENT AND GENERAL MINING SHAREDEALER,
3, PINNER'S COURT, OLD BROAD STREET, LONDON; and
16, HACKINS HEY, LIVERPOOL.
Mr. T. E. W. Thomas's pamphlet, containing particulars of a few of the leading mines, with his advice to speculators and investors for 1863, is now ready, and can be had post free for six stamps.
Mr. T. E. W. Thomas is a BUYER of 500 (or any part) North Great Work shares.

Mr. T. E. W. Thomas is a BUYER of 500 (or any part) North Great Work shares.

MR. F. R. S. G. LANE, MINING SHAREDEALER,
44, THREADNEEDLE STREET, LONDON, E.C.

Mr. F. G. LANE is a BUYER of the following shares at prices annexed, or a SELLER at a small advance:—
2 South Caradon, 2410.
50 Ludeott, 274.
50 Ladeott, 274.
100 Glasgow Caradon, 238,
100 Glasgow Caradon, 248,
100 Glasgow Caradon, 238,
100 Glasgow

WHEAL SETON.
COPPER HILL.
WHEAL TRELAWNY.
CALVADNACK.
WHEAL UNION,
NORTH BASSET.

SOUTH WHEAL FRANCES. SOUTH TOLGUS, WHEAL MARGARET. SOUTH CARN BREA. EAST CHIVERTON. NORTH DOLCOATH.

MR. FREDK. W. MANSELL, of 75, OLD BROAD STREET, LONDON, strongly RECOMMENDS the IMMEDIATE PURCHASE of the ABOVE SHARES, at present market price.

Mr. Mansaell is in possession of information respecting the whole of them, which leaves no doubt of a great advance in the price of each of the shares mentioned.

JAMES B. BRENCHLEY, 78, OLD BROAD STREET, E.C., MINING SHAREDEALER.
Bankers: London and Westminster.

JAMES HUME, SHAREBROKER, 74, OLD BROAD STREET,
LONDON, E.C., has FOR SALE:—
20 East Caradon, 445.
5 Stray Fark, £38.
5 Copper Hill, £92.
20 East Russell, £446.
5 Stray Fark, £38.
6 Copper Hill, £92.
20 East Russell, £446.
JAMES HUME's Circular for March now ready, 6d, per copy, containing special reports and information on Wendron Consols, New Wendron, South Condurrow, North Dolcoath, West Tolgus, &c. Also remarks on the "sensation" mines, and when to act in these. Investors seeking legitimate mines are cautioned not to buy "sensation" mines before applying to Mr. Hume, as an injudicious step may lead to heavy losses.
Mr. HUME invariably returns to his clients the prices at which shares are bought or sold, subject to small commission.

Bankers: London and Joint-stock Bank.

GOOD DIVIDENDS.—Messes. DAUNT AND CO., of 30, CLEMENT'S LANE, LOMBARD STREET, E.C., have ON SALE some FOREIGN GOVERNMENT BONDS, yleiding 8 and 9 per cent, interest, payable half-yearly, as punctually as on Consols, and are perfectly secure. Business transacted in A list of safe investment forwarded (gratis) on application. Investors will be cautioned against spurious mines.

LOANS ON MINING SHARES AT FIVE PER CENT. Ashareholders can have sums of not less than £100 advanced on East Caradon, Marke Valley, Devon Consols, North Roskear, North Crofty, Providence, and other bona fide andertakings.—Apply to E. Milland, Belsize-park, London, N.W.

MONEY.—CONTRACTORS and OTHERS can be ACCOMMODATED with LOANS, DISCOUNTS, &c.—Apply to Messrs.

VILLUSSON and Co., monetary negociators and arbitrators, &c., 25, Birchin-lanc, Cornlll, London, E.C.

NVESTMENT.—MR. THOMAS SPARGO, STOCK, SHARE, and MINING BROKER, Nos. 224 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., publishes, every Wednesday, a GUIDE to BRITISH and FOREIGN MINING, and OTHER INVESTMENTS, which should be consulted by all capitalists. Post free on receipt of six stamps.

COAL, IRONSTONE, AND BLACKBAND.—TO BE LET, in the LLYNFI VALLEY, GLAMORGANSHIRE, SEVERAL EXTENSIVE Apply to Samuel Dossow, Eq., C.E., Cardiff.

WHEAL TREEBY (BUCKFASTLEIGH).—An OFFER is WANTED for FOUR HUNDERD SHARES in this MINE.—Address, 'S. S.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

ONE HUNDRED SHARES in the FESTINIOG SLATE QUARRY COMPANY (LIMITED) FOR SALE, £4 10s. per share paid-up.

MR. T. H. ANDREW, MINE BROKER, LELANT, HAYLE, CORNWALL.
Business at all times in Providence, East Providence, Margaret, Kitty (Lelant) Trencrom, St. Ives, Trelyon, Rosewall Hill, &c.

No. 30, Strand, being suddenly required by the Charing-cross Railway Company, Mr. WHITTON ARUNDELL has REMOVED his office to No. 11, WATERLOO 43

HENRY GOULD SHARP'S
RAILWAY, BANKING, AND MINING CIRCULAR,
(Gratis and post-free)
Should be CONSULTED by the PUBLIC before INVESTING. It contains reliable information and advice to capitalists, REPORTS on MINES, RECORD of MARKET
PRICES, and is the only "SAFE GUIDE" for the investment of capital.

Established 10 years.

Offices, 32, Poultry, London, E.C.

EDMUND OLDREY, STOCK, SHARE, AND WINING BROKER, 20, THROGMORTON STREET, LONDON, E.C.

JOHN GLEDHILL AND CO., MINE AGENTS AND 46 SHAREBROKERS, MINING OFFICES, CORN EXCHANGE, LEEDS.

JAMES H. COCK, MINE SHAREBROKER AND DEALER, REDRUTH, CORNWALL.

J. H. Cock, having had 10 years' experience in the mining market, and being thoroughly acquainted with mines and their management, is in a position to advise or do business on the most advantageous terms. Cash er time bargains prompily attended to.

MR. EDWARD BREWIS, STOCK, SHARE, AND MINING BROKER. (ESTABLISHED 1807.)
OFFICES,—49, GREY STREET, NEWCASTLE-ON-TYNE.

Original Correspondence.

THE HEMATITE IRON COMPANY, AND GOVERNMENT INSPECTORS.

letter of the directors of the Hematite Company in your paper of the 7th inst., but as documents and correspondence relative thereto are now before the Scretary of State, it may be as well to delay opinions until the whole appears in an official form. Newcastle-on-Tyne.

THE GOVERNMENT MINE INSPECTOR, AND THE WHITEHAVEN HEMATITE IRON COMPANY.

Sin,—The Colliery Guardian of the 7th inst. contains an article under the head of "Zeal Without Discretion," animadverting somewhat severely, and, if I am not mistaken, very unfairly also, on the conduct of Mr. Dunn, one of the Inspectors of Mines, in the recent prosecution under the Mines one of the Inspectors of Mines, in the recent prosecution under the Mines Inspection Act at Whitehaven. It may appear to the public generally, that in permitting two discharged servants of the defendants to accompany him for the purpose of inspecting the mine, Mr. Dunn acted indiscreetly, until it is informed that the practice of colliers being taken by the viewers even to inspect places they had condemned as dangerous has hitherto in some measure been adopted in the North of England, but in other counties I believe such things are seldom or never done. From the fact of the case occupying nearly two days, it is clear that it was a remarkable struggle, in which if the evidence for the prosecution was not sufficiently strong to secure a victory, there can be no doubt that there was more than sufficient for the defence. Mr. Thomas Emerson Forster, whose evidence was supported by several other gentlemen, informed the Bench that he had examined the mine on the 18th of last December; and again a few days prior to the day of hearing, and on both occasions no gas could evidence was supported by several other gentlemen, informed the Bench that he had examined the mine on the 18th of last December; and again a few days prior to the day of hearing, and on both occasions no gas could be found in the workings, and that there was efficient ventilation throughout. Between those visits made by Mr. Forster, when the mine was found so free from fire-damp, Mr. Dunn and Mr. Atkinson, in their official capacity, inspected, I suppose, the same mine and the same working places, though that was not, I believe, clearly elicited, when they found, not only an accumulation of gas, but strong grounds of complaint in respect of the inefficient provisions for the safety of the men in the event of a casualty occurring below. Now, most persons who read the published account of those proceedings, will easily believe that although Mr. Forster could find no gas in the mine on the two distinct and different days mentioned by him in evidence, it might appear on the day Mr. Dunn and Mr. Atkinson were there. Mr. Forster's first visit being made on the part of the lessor, preparations might be made to receive him, and when a second visit was made to the mine it would be, no doubt, to rebut the evidence of the two Inspectors, after the ventilation had been improved; but, apart from that, in a mine wherein the ventilation is all but balanced, a change of atmosphere will quickly produce a marked and an important alteration in remote workings underground, and as gas, if any be emitted, may on such occasions be found in those places lurking up to the roof of the mine, and on the edge of the goaf, and sometimes in the return air-course adjoining thereto, it appears to me that if it be possible to reconcile in any way evidence differing so much as that under consideration differs, some such change must have taken place.

For the prosecution, the presence of gas on the workings on a certain day was fully proved, and not even denied for the defence; but was ad-

evidence differing so much as that under consideration differs, some such change must have taken place.

For the prosecution, the presence of gas on the workings on a certain day was fully proved, and not even denied for the defence; but was admitted as a trifling and inconsiderate volume, which one of the witnesses, Mr. Foster, I believe, said he would "have fired to have got rid of it." At this point the case should have been closed; it seems then to have been fully proved; but another opinion prevailed, and by some astute mode of the Act, "under ordinary circumstances," was placed in bold relief before the Bench. But the Bench, it seems, barely understood whether, under "ordinary circumstances," the mine was well ventilated, it being the ordinary and usual custom of the district to have gas constantly in the working places of a mine, or whether the gas found there was the result of some extraordinary event. If the evidence of an Inspector of Mines, who, after an examination, in propria personâ, of the mine, and alone, is neither to be allowed to establish the fact, if he should happen to find the Act violated, nor be permitted to accept the aid of an assistant to support his evidence, unless the person so employed be an Inspector of Mines under Government, how or by what means is the law to be enforced? Does not this show not only a lamentable omission somewhere, but suggests a remedy? The nearest colleague may be hundreds of miles away—and if the evidence of the men were called for, durst they, in a case like this, give it; would-it be believed if given in support of a prosecution against their employers; or are they, in a majority of cases, able to understand the nature of the enquiry into which they may be drawn? How, then, is an Inspector to act, when placed in a position similar to that in which Mr. Dunn has been, contending against clever and determined men? No one more freely admits the talent and experience of Mr. Forster than I do. But I deny that he possesses in any degree superior ability to the t more freely admits the talent and experience of Mr. Forster than I do. But I deny that he possesses in any degree superior ability to the two gentlemen he was brought forward to confront and oppose, and although this opinion had been previously formed, it has been very much strengthened and confirmed by that portion of his evidence wherein he told the Bench in open court, which was crowded, no doubt, with persons more or less connected with mining, and in the presence, perhaps, of many of the working colliers of the district, who sconer or later may try the experiment of firing gas when it happens to interfere with their work or with the use of candle-lights, where lamps only should be used, and in places, too, where it may be attended with risk which they, from want of skill, may not be able to foresee — that he would have fired the gas to get rid of it.

Coal.

COAL WORKING IN SOUTH WALES.

SIR,—The following gives a return of the seams of coal worked suc

cessfully in this district on the long	wall system:—
Yard coal, or the Aberdare 2 ft. 9 in. Top, tolerable.	Good coal
4 ft. scam; identical with Aberdare 4 ft. Top, very bad.	Clod 2 ft. 2 in.
6 ft. seam. Top, very bad.	Clod 0 ft. 6 in. Coal 3 ft. 6 in. Shale 0 ft. 5 in.
Dirty vein. Top, fair.	Coal 2 ft. 6 fn.
Lower 2 ft. 9 in. Top, very bad.	Clod 0 ft. 10 in. Coal 1 ft. 6 in.
The 51/4 ft. coal, sometimes called "the two coals," Top, fair.	Clod
Lower Yard coal. Top, rock.	Coal

With regard to Mr. Naysmith's letter in last week's Journal, I wish that gentleman to understand that I have not charged him with being either unfair or dishonest in his remarks on "long wall." I believe him to have written in all sincerity, and to have only said what he thoroughly believes. The remark in my first letter may, perhaps, be open to too wide an interpretation; but I am far from having any wish to throw any aspersion whatever on Mr. Naysmith's letters, and am sorry that he should have read it so. What I meant by the remark was, that the general tendency of Mr. Naysmith's letters (though, probably, quite unintentional on his part) was to give English colliery viewers an erroneous idea of the cadency of Mr. Naysmith's letters (though, probably, quite unintentional on his part) was to give English colliery viewers an erroneous idea of the capabilities of their professional brethren in South Wales, and of their power to apply their own experience, and the experience of others, to the best and most profitable known method of working any given seam of coal. I owe Mr. Naysmith this explanation and am, therefore, not sorry that he has made reference to the remark open, in his opinion, to such a construction. Having given Mr. Naysmith the above necessary explanation, allow me to draw attention to the inconsistency of this letter with a previous one of his. He tells us that the statement made as to the successful working of long wall in this district "is nothing but what he has known for some time;" and yet he has asserted that long wall cannot be worked in South Wales! How does Mr. Naysmith harmonise the two statements?

planation given in brackets, is very ambiguous; I can hardly think that he meant it in downright earnest, he must have for the moment turned facetious, and playfully designated the above work as "patching." The 9-feet, which has a clod in the middle, is worked at Rhymney on the "long wall" method, and a great portion of the 4-feet at Navigation Colliery as well. I think that both Mr. Naysmith and Mr. Ross are labouring under a similar grand mistake. Because one defends the long wall system, and maintains that it can be worked, they run away with the idea that one wishes the system to be introduced "universally"—that is, indiscriminately to all seams of coal alike, under any circumstances.

system, and maintains that it can be worked, they run away with the idea that one wishes the system to be introduced "universally"—that is, indiscriminately to all seams of coal alike, under any circumstances.

Mr. Ross says that the advocates of the "universal application" of long wall in working coal are mining quacks. I agree with Mr. Ross, that they would lay themselves open to such a charge. The friends of long wall know well enough that there are seams of coal that cannot be worked on long wall for the want of rubbish, &c., to stow the gobs, and they think that the attempt to work long wall in such seams would be truly worthy of the wise men of Gotham. I cannot help drawing attention to Mr. Ross' two-edged remark contained in the two or three lines at the end of his letter; it is, that the indiscriminate application of the long wall system, or any other method of working coal, can only lead to disappointment and danger, as shown by Mr. Naysmith and other. I am not aware that Mr. Naysmith has shown the disappointment, &c., of the indiscriminate application of the pillar and stall—but, at all events, Mr. Ross has told him that it will only lead to disappointment and danger. And I think that I am as well entitled as Mr. Ross to say, that the advocates of the universal application of pillar and stall are very near relations of, if not identical am as well entitled as Mr. Ross to say, that the advocates of the universal application of pillar and stall are very near relations of, if not identical with, the "genus" he mentions.

The long wall has been particularly free of explosions since its introduction in this neighbourhood: but disastrous explosions have again and again occurred in the "pillar and stall."

again occurred in the "pillar and stall."

Mr. Dunn, the Government Inspector for the northern mining district, has said in his book that, among other advantages of long wall, "it affords a simple and effective ventilation, and supersedes the necessity of maintaining wastes." Mr. Dunn is an authority that, I think, Mr. Naysmith will not district because I think, Mr. Naysmith was the second of the second o will not dispute; hence, I think, Mr. Naysmith's grave cautions may be taken for what they are worth. The difficulty of overcoming the antipathy of men to long wall is very trift ing. Let the managers have the firmness to persist in, and the patience to show them, the superiority of the method for working certain seams of coal, and in time they will find that the difficulty will be to get the men to work the 'pillar and stall' at all. After the courtesy with which I have treated Mr. Naysmith's remarks as to the aspersions thrown upon his letters, I hope he will be charitable appearanch to suppress that I are not actuated by any dishonest or unfair as to the aspersions thrown upon his letters, I hope he will be charmand enough to suppose that I am not actuated by any dishonest or unfair motives in communicating these letters. The argument is not affected by the name; and thinking that I have an equal right to call myself "Long Wall" as the writer of the letters on "Government Inspection" had to call himself "An Aberdare Collier," I will again subscribe myself, Merthyr, March 12.

Long Wall.

VENTILATION OF COAL MINES, &c.

VENTILATION OF COAL MINES, &c.

Sir,—We are told by Mr. Mushet that the ingredients supposed to be necessary for the assay of ironstone were upwards of twenty, in which carbon occurred four times, yet thousands of chemists had at that time lived and died "famous." Half a century spent chiefly in the management of long work collieries, in "fiery" districts, and having set to work more seams than forty managers in some of them, twenty in one property, leads me to say, that in view of the grievous loss of life from explosions, it may be excusable to suppose for a moment that the "great." men have been wrong in continuing the "heading and pillar," or Newcastle system. Stalls, or headings, imply excavations without a current of air, or such a number of splits and diversious of air as must cause the quantity to be too small in places liable to an admixture of gas by "hlower." In other words, is it not desirable to keep the whole current of air along the plain faces of the whole colliery (one on each side of the winning shaft), and, of course, round the whole waste, or worked space, as thoroughly as it formerly passed along every yard of the working face of any number of "pit rows," from the deep level back shaft to the air shaft, on the deep level of the former colliery working?

It was my lot at the age of sixteen to pass weekly along such, in the parish of Staveley, Derbyshire, and along similar at Lings and Tupton, as underground agent of my father. At the former a heading, 10 yards out of the current, was not safe, although blowers were unknown there.

The quantity of coal got from a given width of face is become of greater importance.

are suat, on the deep revel of the former coilitry workings?

It was my lot at the age of sixteen to pass weekly along such, in the parish of Staveley, Derbyshire, and along similar at Lings and Tupton, as underground agent of my hower were unknown them.

It was my lot after the most at the second of the current, was not safe, although the were were unknown them.

The quantity of coal got from a given width of face is become of greater importance now that the demand is so increased, and the outlay so great consequent on depth, and any interference with the "landage" would be of doubtful value, as it would be so ilable to cause dangerous "driving on," wilful neglect, or lukewarm feeling as to danger. At Blaenavon, Momouthshire, long work was abandoned, as requiring too much width of face. I believe Beggarlee, Derbyshire, was one of the few coilieries having a roof so tough that the horses of one set of men drawing out coal could pass another party in full work, hammering, loading, &c., so that each party having width for a day's work, the whole face of the coiliery might be sent out daily, to the depth of undermining (holing) suitable to the vertical cracks of the coal; thut our props were required so close to the face that the holers (thy night) had only room to sit between them and the face. As main roads for the width of only one day's work were out of the question, and a pillar of coal thought essential to between the two roads (to the deep and basset banding boled, or undermined, assisted by pressure of the roof to bring down the coal standing boled, or undermined, assisted by pressure of the roof to bring down the coal standing boled, or undermined, assisted by pressure of the roof to bring down the coal is a streat change has come over this dream, by means of powder, whether to great the single of the property of the property of the property of the day is the coal is not preferable to one impeded by partial diversions windinar steps, and disasted by a stream of the property of the property of the property

All collieries should have iron ladders from stage to stage, and a drift began at a few score yards to the rise of the level, and hitting the ladder in the shaft at (away) 20 yards from the bottom. This, at a cost of about 100t, would have saved the lives of the Harley and Clay Cross men, and those of numberless other works. The ladders might find place amongst the pumps, and be daily useful; or in the segment of a shaft not co-cupied by carriages, as I had an hydraulic pan for lifting the coal. Any old colliery could soon be swept clean of pillars, and taken in one face of long work for each "side." It gives on old hand a poor opinion of progress to find that in most shafts where there is only a lift-pump and a plunger, the former, whose bucket and clack could be changed which in ser its whole length under water, is the upper, and the latter, which 20 ft. generally puts out of reach of "screwing down," and becomes useless, is in most cases the lower lift, so that shut in by water there is little hope for men. This lately kept a colliery near Sheffield (die, except drawing water, nine months. The question of whether this or any other form be suitable to a seam, and how and what difficulties can be dealt with, may be answered by the fact that a few bells ring thousands of changes, or a circumstance alters a case; but any good workable seam is open to long work—generally pilable roof preferable to rock.—Bank-street, Skefheld.

The BUTLER.

TRAMWAYS IN THE METROPOLIS.

SIR,—I have read, and derived much amusement from, the letter of "Observer" on this subject, published in last week's Journal, and can readily see that he is neither engineer, financier, nor utilitarian; but whether ious one of his. He tells us that the statement made as to the successul working of long wall in this district "is nothing but what he has
nown for some time;" and yet he has asserted that long wall cannot be
orked in South Wales! How does Mr. Naysmith harmonise the two
tatements?

The remark in his letter on the Rhymney long wall, in spite of the ex
"An Observer" has evidently misunderstood the Act,
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so is estimates. "An Observer" has evidently misunderstood the Act,
so is estimated as method to the public, it is difficult to say, though I should
less that the proposes would cost nearer 10,000,000. than
12 per cent., as is estimates. "An Observer has with more money than wit, or one who seeks to play
upon the credulity and guillibility of the public, it is difficult to say, though I should
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price, and not, as "An Observer" seems to think, at the price the land was worth before it was built upon. Such a tramway as that proposed by the Espianade and General Convoyance Company would necessitate the removal of some millions worth of houses alone, and as the line would certainly possess no greater advantage than an ordinary railway, I cannot see how greater success can be reasonably expected. If tramways are to be introduced in any form it must be in existing streets, and the wheels of the tram carriages must be so formed as to run off or on the line at pleasure; this would necessitate a good broad wheel; and as to the flanges for keeping them on the rail, the best arrangement would probably be to provide projecting and withdrawing studies of the requisite height. It is true that a great difference is experienced in the tractive power on or off the rails, but the many advantages would be to some extent a compensation for this difficulty.

PRACTICAL.

MINING MACHINERY-ENGLAND AND AUSTRALIA.

SIR,—Before entering on the description of Crushing Machinery, I wish to offer a few remarks upon the process of gathering gold from the mineral, to define the technical words used to describe these processes, and so to give a clearer idea of what quartz crushing really is. The process may be said to embrace three distinct operations; and anyone wishing to reason upon the several methods employed must keep this division clearly before him:—1. The crushing of the mineral, or the reduction as it is best to true the breaking down the mineral, to set free the particles of gold—2. The him:—1. The crushing of the mineral, or the reduction as it is best to term the breaking down the mineral, to set free the particles of gold.—2. The amalgamating or the mingling the reduced mineral with mercury, so that the mercury shall hold the minute particles of gold in solution.—3. The separation or the retention of the gold (or amalgam, as the gold and mercury combined is called) whilst the refuse, or mineral gange, is washed away. We have, therefore, the reduction, amalgamation, and separation—three distinct processes—which must be clearly understood to enable us to reason upon the several methods employed for extracting the cold from the mineral months are several methods employed for extracting the cold from the mineral tinct processes—which must be clearly understood to enable us to reason upon the several methods employed for extracting the gold from the mineral gangue. First amongst machinery for extracting gold stands the CHILIAN MILL; the most efficient, the most simple, the only machine which nearly combines within itself, and at one continuous process, the three separate divisions I have mentioned. It may be described as a pair of iron edge runners (similar to those used for grinding mortar, gunpowder, or linseed) revolving round an upright shaft upon a circular bed-plate; the edge of the runner is either square or convex, and the circular bed-plate is accordingly flat or convexy, the disregar of the square or convex. revolving round an upright shatt upon a circular bed-plate; the eage of the runner is either square or convex, and the circular bed-plate is accordingly flat or concave; the diameter of the edge runners is from 4 to 6 feet, and the thickness from 15 to 18 in.; round the inner and outer edge of the circular bed-plate an iron rim is fixed, so that the wheels or runners revolve in a water-tight trough. A charge of mercury, about 100 lbs., is placed in the mill, the quartz is thrown under the wheels, and a small stream of water is allowed to flow in, and passes out over the inner rim. This is called an inside discharge; and the height above the bed-plate, at which the water escapes, is called the overflow. Under the action of the runners the quartz can be reduced to impalpable mud; in fact, there is no reasonable limit to its fineness. The amalgamation is effected under the most favourable conditions, the mingling with the mercury taking place at the time the gold is liberated from the stone. The separation is effected by the current of water, and depends for its rapidity upon the centrifugal force caused by the greater or less rapidity at which the mill revolves. Upon this velocity depends the perfect action of the mill; it may, through ignorance or cupidity, be pushed to such an extent that nearly every particle of fine gold may be lost.

The most perfect way of working these mills would to charge them with quartz and a little water, till the whole became a thick puddle, thoroughly incorporated with the mercury; then to allow the stream of water to flow in and out to carry away the refuse; but this would be too expensive, and

The most perfect way of working these mills would to charge them with quartz and a little water, till the whole became a thick puddle, thoroughly incorporated with the mercury; then to allow the stream of water to flow in and out to carry away the refuse; but this would be too expensive, and practically impossible and unnecessary. Worked continuously and carefully as to its volocity, and the amount of quartz and water let into the mill, there is no process that is anything near it for efficiency and simplicity. The mill needs only to be stopped once a week, and the whole process of clearing the mercury and amalgam need not occupy more than an hour. With rich stone—say, over 2 ounces—it is the only plan that should be adopted; but the cost of working precludes its use with the poor varieties of ore. A full-sized pair of runners requires from 4 to 5 horse-power, and the work done should be under 20 tons per week with ordinary stone—with some varieties much less. The disadvantages of the Chilian mill are, relatively, its first cost, the expense of working it, the small quantity of work performed, and the loss of mercury; this latter charge against the mill is more frequently caused by trying to force the mill to do more than the proper quantity of work. Under the grinding action of the mill, the mercury becomes divided into minute particles—floured; and if the velocity of the mill is too great, the current of water carries some of the mercury away. It was to obviate this that the convex edge was adopted, for the purpose of keeping the mercury concentrated in the concave bed-plate; but it was obtained by the sacrifice of a portion of the reducing power of the mill, the flat or square-edge runner, grinding more stone; it is, however, not important, for the reduction power of the Chilian mill is in excess of its separating power. The loss of mercury in a mill is sometimes stated as high as 150 lbs. per annum; it is much less if properly managed. The price of crushing with the mill is so much dependent upon quality, t

illustrate the difference between good and bad working of these I may illustrate the difference between good and but working of these mills by this fact:—I have taken from the tailings, or refuse, of quartz crushed by one Chilian mill, which had returned 2½ ozs. per ton, at the rate of 14 grs. per ton, or '01 of the total amount in the stone; whilst from another mill, which gave a return of 11 ozs., the loss was 3 ozs. 8 dwts. rate of 14 grs. per ton, or '01 of the total amount in the stone; whilst from another mill, which gave a return of 11 ozs., the loss was 3 ozs. 8 dwts. per ton, or '20 of the gold contained in the stone. Some portion of this discrepancy was due to a difference of material; but as I saw the working of the mills personally, I know that by far the larger portion of it was caused by bad management. No one who has seen the simple working of the Chilian mill, and who has mastered the simple principles upon which its whole action is based, can fail to see the folly of the so-called improvements springing from it; most of them projected by sanguine and interested inventors, more anxious to push their whims and crotchets than to elicit truth. The Arrastre of South America is but an old form of the Chilian mill, in some cases the dragging instead of rolling being substituted; a matter of no moment, as I have before stated; for the reduction power of the Chilian mill is already in excess of its separating power; and there is no practical use in pushing the reduction beyond what the mill is quite capable of separating.

Having now these principles to start with, let us see the modifications from them. First came Berdan's Machine; in its reducing power far behind the Chilian mill, in its separating power infinitely worse, both in theory and practice; as a piece of mechanism, compared with the mill, costly and clumsy, and wearing out far more rapidly. I saw the first worked at Sandhurst, in 1855, which after a few months' trial was cast aside. I saw others working—one at Blackwood, where, from the irregular shape the balls had taken, they were bounding about most violently, and, in fact, acting like stampers, much to the satisfaction of the quartzmiller, who assured me they were doing the work much faster than when they had their original spherical form. Just at that time the Chilian mill started, and at once cut short all experiments with Berdan's machine. Directly following it came Britan's Machine, a far better machine in

of time, or 1856, an attempt was made to push, or drag, round balls, instead of the edge runners, in the concave bed-plate of the Chilian mill, for what advantage I never could learn; it only appears to me a bungling, complicated way of doing, in a different manner, what the convex edge runner does. The friction of the machinery is enormous, whilst the action on the quartz is nothing compared to the edge runner. A machine of this kind was tried at Chause and ways accedibly abandoned. Learn it extending ideals

quartz is nothing compared to the edge runner. A machine of this kind was tried at Clunes, and very speedily abandoned. I saw it standing idle, whilst the Chilian mills around it were as busy as they could be, charging 5l. per ton. I believe the Cwmbeisian are trying this old idea. Finding the balls impracticable, another sanguine inventor converted them into blocks, and, dragging them round the concave bed-plate, procured a modification of the old arrastre here again, whilst the friction on the machinery is increased, the action on the quartz is less, and the amount of work is so trifling that the cost of working is very high, and altogether impracticable; this after great difficulty had a trial, and was abandoned. It would seem as if the object of inventors was really not to crush quartz, but to grind out their expensive machinery in the quickest possible man-

but to grind out their expensive machinery in the quickest possible man-ner, and at the highest expenditure of power.

The Amalgamating Machinery at the Clogau and Garth Gelt is, I be-

lieve, only a modification of the machine I have just referred to. The lieve, only a modification of the machine I have just referred to. The rubbing surfaces are flat instead of concave—by no means an improvement, if the favour that the convex edge runner is held in (on account of flowing the mercury less) is a test. The application of steam to the pans has been tried again and again, but no one ever detected any benefit from it; in fact, the quantity of water used very quickly reduces the temperature. I repeat that not one of these several methods are in any one respect equal to the Chilian mill; they are all very bad modifications of some one principle of it, and, where they have been practically tested in Australia, dear-bought experience has proved their utter worthlessness. In their reduction power there is no comparison whatever; in their amalgamating much worse, on account of flowing the mercury more; and in their separating power dependent on the same principle, with greater difficulty of application.

The next machinery to consider will be the STAMPS, with which I will commence my next letter.

W. M. Brown.

Park-road, Edmonton, March 10.

STAMPS VERSUS OTHER MACHINERY.

STAMPS VERSUS OTHER MACHINERY.

Sib.,—In my communication on this subject, published in the Journal of Jan. 31, I wrote in a general spirit, with scientific views, and without alluding, or intending to allude, to anyone personally. I mean to say that I wrote the article in as fair and liberal a spirit as anyone could who advocated one side of a question for the purpose of eliciting the opinions of those who supported other systems for effecting the same purpose. I at least gave a foundation for a fair argument by stating facts, by giving statistics of what had been done, and of what could be done by stamps; and at what cost of power, money, and labour, including time employed per ton. Mr. Mosheimer has taken upon himself (with the assistance of some other party) to write an answer to my letter, which is full of personalities, equally untrue as disagreeable, and in support of the arguments in which he has not condescended to adduce a single fact or proof; he innocently thinks that he has disposed for ever with the question of stamps or stamping machinery, merely because he states that I defend an "old-fashioned" plan, and that he has crushed upon a different process: I hope in his next promised communication we shall have the missing data as to cost and results. How would Mr. Mosheimer's grinding and amalgamating apparatus answer for conveying on mules into the interior of a country like Brazil, where one mule load is 150 to 160 lbs. on each side? Mr. Mosheimer is so good as to inform us that there has never been, nor Mosheimer is so good as to inform us that there has never been, nor is there, anyone employed in this district (Merionethshire) who understands anything about gold extraction, except, of course, his learned self. Now, if Mr. Mosheimer, instead of running down, and recommending me, who has served a ten years' apprenticeship in the gold fields of Brazil and Chile, where we had to deal with not only common, pyritous, and other metalliferous quartz, and the heavy "jacotinaga," or oxide of iron, but also rich auriferous copper ores, containing 12 to 24 "castellanos" of gold per carga, and 33 per cent. of copper; I may add that I have had nearly nine years' further experience in metallurgy in Spain and Germany, and have repeatedly visited the various mining districts in England and Wales, paying particular attention to the crushing, concentration, and treatment of ores by smelting, amalgamation, and chemical solution. The is there, anyone employed in this district (Merionethshire) by smelting, amalgamation, and chemical solution. treatment of ores by smelting, amalgamation, and chemical solution. The people and the rich European companies engaged in gold extraction all these years in Brazil and Chile have not been dreaming all this while; they have lived to see many of Mr. Mosheimer's countrymen go out there with their patent schemes, and have seen them thrown aside to make room again for the "old-fashioned stamps," and many of the more recent inventions have been tried there and failed. I say again, that if Mr. Mosheimer, instead of becoming so directly personal, had given us some facts instead of "palaver," then he would have contributed somewhat towards the public weal. I cannot, however, let his letter pass without further notice, and omitting the exordium, which contains generally only a few evoltsitical omitting the exordium, which contains generally only a few egotistical and very common-place observations; but taking exception to the gratuitous piece of information, that none of the scientific metallurgists in this and very common-place observations; but taking exception to the gratuitous piece of information, that none of the scientific metallurgists in this country pay any attention to the extraction of the gold in this district—

1. I will ask Mr. Mosheimer whence he obtained the knowledge that Mosee was a gold extractor, and where, from what, or by what process? I used to be taught that the gold used by the Hebrews was imported by sea from Ophir, and from other distant countries.—2. There is no wonder that mines will pay now in California which would not pay five years ago, because labour and capital non are cheaper and more abundant than at that period; also roads and other means of communication have been made and improved, and skilled constructive labour and mechanical manufactures and works are established and become more common and cheap.

—3. The gold mines in Wales do not pay so well as the Californian, simply because, on the average, they are not so good, notwithstanding Mr. Mosheimer's assertion to the contrary, which I defy him to prove—there are doubtless a few, but very few, of the present mines in the Mericonethshire gold field which will repay the outlay (I do not say to yield a profit); and I will venture to assert that, as affairs are managed in the average of the mines here, a ton of ore cannot be broken, cleaned, brought to the works, and reduced (by any system) for less than 25s. per ton, and I am confident that this is far below the mark.—4. Mr. Mosheimer is an inventor himself, and has successfully "put off" his own machines upon several companies in this district, and therefore he should not rail at other inventors.—5. I recommended wet stamping (which I beg to observe is different from wet conshing) as a general rule, but where no water is to be had, or is too expensive, then of coarse dry crushing or grinding is preferable; dry stamping is a system which only novices would employ. All practical metallurgists know that the crusher will do more work dry than the stamps, and cheaper. I have been o All practical metallurgists know that the crusher will do more work dry than the stamps, and cheaper. I have been obliged to use dry stamps myself where there was no water nor power to work an efficient crusher, and have concentrated successfully silver ores by the dry process. A writer in the Journal of February 28 informs us that in some parts of New Granada they employ the dry process for separating gold from its ores. Let Mr. Mosheimer turn his eyes eastward to Australia, and there he will find the "old-fashioned stamps" in general use, and surely the intelligence of the Australians cannot be so far behind that of the Californians as he would have us to believe.—6. Mr. M. tells us that he crushed thousands of tons of ore, but he tells us nothing of his losses in tailings, and even if he did, it would only be an ipse dizit, unless otherwise corroborated. I reiterate my former assertion, that it makes all the difference whether the ore be stamped or ground in frictional contrivances, in so far as the recovery of the gold and the subsequent treatment of the ore is concerned.—7. I am not at all disposed to condemn Mr. Mosheimer for giving up the stamps altogether, if he is in the habit of using them in the manner in which he intends to misuse the Clogan stamps (now erecting). giving up the stamps altogether, if he is in the habit of using them in the manner in which he intends to misuse the Clogau stamps (now erecting). I will put it as a fair question to any intelligent Cornish ore-dresser, or to anyone conversant with stamping machinery, whether a stamps, stamping upon a barred grate, the bars being about I inch apart and 5 inches deep, the bars being parallel, and nithout any taper on the under side, are likely to work long or satisfactorily, or whether they will be likely to at first pass through them long flat pieces, much larger than were ever intended to pass, and if they will probably shortly become jammed up with the stone itself? I cannot be responsible for the future proceedings of the Cambrian Consols Mining Company, but if they take my advice their stamps will never "rattle on grates." Let me remind Mr. Mosheimer that there are many "old-fashioned" things connected with metallargy, which are so good in principle that they have not as yet been practically much improved on. I may cite the stamps for wet pulverisation, the emwhich are so good in principle that they have not as yet been practically much improved on. I may cite the stamps for wet pulverisation, the employment of mercury and of lead for separating silver and gold from their ores, and the process of cupellation, of the origin of which history gives us no account, but centuries ago it was much the same as it is at present, and I could cite many other cases in point. Mr. Mosheimer's remarks as to the futility of endeavouring to recover the gold by "men washing on blankets," are prima facie unintelligible, and even taking them for what they may be supposed to mean—namely, the concentration of the ore on skins or blankets—they are based upon no real foundation, while the true effectiveness of the old-fashioned process is daily demonstrated in South America and elsewhere, by excessively poor ores being treated by it with very little loss in tailings, and at a fair profit, by simply using skins and blankets, and finally cleaning the gold in the batea (if amalgamation were employed the profits would be greater). I will undertake by this process to save profitably 80 per cent. of the assay content of ores resembling those of the Cambrian in size of gold and nature of gangue, at a cost of 3s. 6d. per ton, working reduction cost. I do not doubt that my friend, Mr. Mitchell, will feel overpowered with gratitude for Mr. Mosheimer's condescension and sanction in allowing him to erect his machinery for trial, but will respectfully decline the like honour for myself. Time and facts will decide upon the respective merits of Mr. Hopkins's and my process. If Mr. Mosheimer's system of grinding is so very good, why does he not introduce it to the tin mines in Cornwall, this would bring him and the foundry he patronises more profit than the mines of Merionethwed on. I may cite the stamps for wet pulverisation, the em-

I will conclude this long and tedious answer to Mr. Mosheimer by shire. I will conclude this long and tedious answer to Mr. Mosheimer by stating that I do not believe any machine is, or will be, constructed which will amalgamate the whole of the bulk of the auriferous quartz so weil and practically, economically, as the process which begins by reducing or concentrating the ore before amalgamation to one-fortieth or one-sixtieth of its original bulk. We, as practical metallurgists, do not look for, nor expect to get, even 1 per cent. of the gold from the ore; we get out as much as will pay us well, and we leave the residue for those who can make a profit by extracting 2 dwts. of gold per ton of ore, at a cost of 10s, per ton. There is always a limit in ultimate extraction, and frequently the last 1 or 2 per cent. cost much more than they are worth. There is an old Spanish maxim,—"Quien muchs abarea poec aprieta;" and leaving Mr. Mosheimer maxim,—"Quien muchs abarea poec aprieta;" and leaving Mr. Mosheimer to construe this, I hope that if any other correspondent choses to take up the gauntlet I threw down in defence of the stamps, he will do it in a more fair and enlightened spirit, giving practical results and statistics, and refraining from personalities, which can only give rise to disagreeable answers—Cave canem.

WM. REAY, Jun.

GOLD MINING IN MERIONETHSHIRE

SIR,—This subject is now so prominently brought before the public, and discussed by so many men eminent in the profession, with so diverse views, and no small share of acrimony, that a few lines from one who has lately been on the spot, and who acts without bias in the matter, may not be unacceptable to many of your readers.

That gold exists in certain lodes has been proved beyond all doubt and controversy, but whether all the district can be of such value, is to me a matter of considerable hesitation. Even were that the case, the expensive staffs of officers and experimentalists would render success as paying mines, to me, exceedingly problematical. It is not for me to be invidious in naming such, but at the same time the proprietors thereof should know where the cap fits, and act accordingly.

where the cap fits, and act accordingly.

The most celebrated lode bitherto proved has, undoubtedly, been the The most celebrated lode hitherto proved has, undoubtedly, been the St. David's, in the Clogau Mine, where the returns have surprised the most sanguine, by Berdan's process, which had been declared incapable of securing more than three-quarters of the gold to be obtained by assay. The gold was found here in a visible metallic state, the nuggets being unevenly distributed, and perfectly malleable, for the greater quantity was procured from quartz in which no gold could be detected by the eye or by powerful lenses, thus proving its existence in a most minute atomic state. This fact, however, by no means is decisive that every quartz lode in the district in which gold is not visible shall be found remunerative. My guide would be a similarity of abnormal conditions, character of lode, its magnetic direction and its relative connection with cross-courses and other netic direction, and its relative connection with cross-courses and other concomitant lodes. The bearing of the auriferous lodes is, as a rule, about 10° north of east; the cross lodes are not numerous, but where the junc 10° north of east; the cross lodes are not numerous, but where the junctions do occur, the effect is most marked, and in consonance with such occurrences in most mining districts. There are flookan lodes which run very nearly north and south. I should place great reliance on these for making good silver-lead in depth, more especially at the East Dolfrwynog, which is now made part of the property of the Dolfrwynogs United Mining Company. This place, I think, will be highly valuable for lead and copper, being so nearly allied to the old Dolfrwynog Copper Mine. I have little doubt gold will be found at the new mine, as I can see no reason to the contrary, the quartz and spar found therein being perfectly synonymous with some beautiful specimens of visible gold shown me some years since by Captain Davis, the then manager of the mine. Considerable quantities with some beautiful specimens of visible gold shown me some years since by Captain Davis, the then manager of the mine. Considerable quantities have from time to time been discovered, but prejudice, aided by ill understood measures for extracting the precious metal, prevented its perfect development. Active measures are now being taken to use the most improved modes, with every probability of success. It would be scarcely possible to offer more decided proofs of the rocks being auriferous, than the fact of nearly all the beds of the rivers yielding grains of gold, brought down by the mountain torrents, which are so impetuous here. At a branch of the river near Dolgelly I found a gold streamer at work, with cradle, tin pan, bowl, and, in true Californian style, he had in his possession a tobacco-box full of gold dust, and owned to having, on one occasion, found \{ \text{oz. in three} hours. The good fellow complained that the river was too "big" there, or he would, probably, have obtained more. I got out some of the gold-bearing dirt, and satisfied myself, by experiment, that gold is there in no bearing dirt, and satisfied myself, by experiment, that gold is there in no despicable proportion. By way of further trial another man was next day placed on another part of the river, in proximity to the streamer; he, also in a brief period, produced gold dust. I requested him not to work it down so closely, but to make a less washed van; he soon brought in a considerable lot of fine sand, in which gold was very easily detected; the particles appeared to be considerably attrited by friction, but all of them had a lamellar formation, somewhat similar to mica. One piece, the largest I saw, was about the size of half a grain of barley, and would, probably, weigh 4 gra. It was fine in colour, precisely like the specks of cold found weigh 4 grs. It was fine in colour, precisely like the specks of gold found in situ in the quartz lodes. If cheap means could be adopted to extract all the gold from the Alluvium deposit, there cannot be a doubt of its being highly remunerative, the quantity of rough material being absolutely inex-

highly remunerative, the quantity of rough material being absolutely inexhaustible from this source, irrespective of the gold lodes.

Careful and costly experiments are being conducted at the Cefn Coch, Cwmheisian, and other mines; pending these, all the mines are storing their quartzose productions, none being willing to lose so large a proportion as has been satisfactorily proved to have been lost. Mr. Mitchell has had some most elaborate machinery just put to work at Cwmheisian, but it has not yet been in practice sufficiently long to afford a fair decisive proof of its adaptation for extraction by grinding and amalgamating processes. At Cein Coch Mr. Mosheimer has been for some days at work with his grinders and amalgamators, both very simple, and apparently h his grinders and amalgamators, both very simple, and apparently ng their work well. One or two charges had been drawn previous to visit. The result had been forwarded to the committee, and Mr. Mosmer has got orders to erect three of his machines. So far so good. It been found that the gold is so subtle and fine as not to be caught by the hide and blanket process, adopted at the Great Cambrid

[To be continued.]

MINING MACHINERY-CREASE'S EXCAVATOR.

NINING MACHINERI—CREASES EXCAVATOR.

Sir,—I have read Capt. Martin's letter respecting Mr. Crease's excavating Machine, also Mr. Crease's, and the remarks in last week's Journal, and beg you will permit me to state some facts, and make a few comments on the same subject—the only excuse I will attempt to offer is its vast im on the same subject—the only excuse I will attempt to offer is its vast importance. It is necessary, for my remarks to be of some use, that I should explain the grounds upon which I venture an opinion, which I intend to be unequivocal and concise. In the first place, I am a mechanic of 25 years' experience, most of which time I have been so circumstanced that it was necessary for me to use the "finding-out" faculty 12 years in Manchestr, where they are supposed to have some knowledge of machinery, and by it to have accomplished many things by many deemed impossible; the other portion of my experience has been in this district, where I have been almost wholly engaged in the construction of such machinery as is in general use for mines; and from my first sight of the mode of operating on the rock, 13 years ago, it struck me, from the very uniformity of the operation, that it was just the work for a machine; but I realised at the same time, and by subsequent reflection, the whole of the difficulties to be encountered—first, the power, thinking of steam suffocation staggered me; then drilling holes, if even a drill could be made to stand, how was it to be turned; then, again, I supposed a variety of things, but confess that the apparently to be turned; then, again, a supposed a variety of things, out contest that the apparently interminable difficulties, amongst which was the very formidable one of adaptation to position and facility of fixture and removal, made me for the time (which is 18 years ago) turn my attention to quite a different mode of operation, and I wrote to you some six years ago, and then described a machine for boring a circular level and shaft, which notica has been very clummily attempted to be carried out by Capt. Penrice. Circumstantial or the control of the control o stances prevented me doing further in the matter at the time you published my letters, and made some favourable remarks, stating your conviction that it was practicable for machinery to do she work, and during the past 13 years I have never lost sight of that fact; but now I come to more recent dates. About 29 months ago I was introduced to Mr. Crease, but had only a very short conversation with him. Some nine or ten months ago circumstances brought us again together, and at that interview I put such questions which convinced me that Mr. Crease was on the right tack, and I said so positively to a friend who was with me after I parted with Mr. Crease. Subsequently, questions which convinced me that Mr. Crease was on the right tack, and I said so positively to a friend who was with me after I parted with Mr. Crease. Subsequently, I have at this place made some portions of the apparatus, and a good many experimental alterations, and was with the machine part of the first one of the two months, which was, however, only two weeks and four days. The first day I remained 30 hours with the machine, and succeed in making it bore; then the following days meet of the time was employed in teaching the labourers to hore and to work the machine generally, and when I state, for my own part, I never noticed how holes should be bored to tear the rock, and the labourers who could be obtained to work, It will explain why the caless and injurious holes were bored, as referred to by Capt. Martin, every sentence of whose letter was most carefully and ruthfully penned, after remaining with the machine incessantly 16 days (15 hours, on the average, each day). The weak points, as altoded to by Mr. Crease, were fully seen, also the modes of adaptation not suitable, and the basis for the remedies considered; so much so that I myself offered to drive the level at three times the speed with the machine they have averaged with hand-labour, under penalty; and you can judge, from the substance of this letter, I am not altogether in the dark, and I expect to accomplials it, for the following reasons:—Two borrers can be worked in the ond, whereas only one one can be worked by hand-labour. The machine (each borer) can be driven 500 blows per minute; hand-labour an only average (say), at the outside, 10. The borer in the machine will be turned with mathematical accuracy, thus ensuring better effect for each blow. The holes can be bored in every position, and directed in all positions, with the same facility and in nearly the same time the handborer can, while the machine can be removed and brought to its work in the same manner as a tram-wagon; therefore, the machine is the human arm in every sense of the

ergy of steam or compressed air; therefore, I have not made much of a venture, and hink that this increased speed of driving will be exceeded, and without more men think that this increased speed of driving will be exceeded, and without more menbeing employed than at present, after a few months' working, and the men getting accustomed to it. There are many things that out; still be said; but I have already explained enough to satisfy those who are conversant with the matter, and will only now
repeat what you have so very significantly observed—that this invention is destined to
accomplish an entire change in mining and tonnelling, and that no amount of prejudice,
or interest, or I-don't-believe-ism, can stay its progress. One or all of all'these things
may delay it, and have done so aiready; indeed, had it not been for their effect the machine would before this have been in full operation; however, that will shortly be
overcome, as other and more formidable obstacles have been. In a few days a machine
will be complete, about the result of which I am as certain as I am of a steam-engine,
a lathe, or, in fact, of any other machine. Then the cry will be—Who would have
thought it? Well, really, I am glad of it, indeed. And thus attempts will be made to
excuse the most determined and effective hindrances for the time that subliety could
devise. I must, also, asy that Mr. W. Williams, of the Vigra and Clogau Mines, after
seeing the machine at work, stated his firm conviction that it was on the right principle, which opinion was confirmed by every one having a knowledge of the subject,
who has carefully watched the working.

Cambrian Foundry, Aberystwith, March 5.

GOLD EXTRACTION-MR. READWIN AND MR. HOPKINS.

Sin,—In reply to Mr. Evan Hopkins's unprovoked attack on me in last week's Journal, allow me to advise him to keep a little nearre the truth the next time he descends from his lotty height to notice me. He must well know that abuse will never reach the truth we are in search of—reason may, and perseverance certainty self!. I, with others, have for a long time been looking anxiously for the result of Mr. Hopkins's perfect plan of gold extraction. I do not hear that it has been satisfactory to those interested. We are now looking forward to the time when his pluperfect patent method is adopted at the Cambrian Mine. I which him success with all my heart.

T. A. READWIN. STRETCH, March 12. Stretford, March 12.

THE GOLD QUARTZ PROCESSES.

THE GOLD QUARTZ PROCESSES,

Sig.—With reference to Mr. Evan Hopkins's letter on "Gold Extraction," which appeared in last week's Journal, it is much to be wished that the writers on this subject would conduct themselves to statements of fact, or to proposals to test practically their methods at, or within, some specified periods. Results sufficiently authenticated are all that coght to have weight with the public in such matters, and are all that have weight with those of average experience. Those who are not acquainted with the disputants cannot take the assertion of one that another's experience is a "myth," merely because it differs from his own.

I am a shareholder in Cambrian Consols, as well as in other gold mines in Wales (but not in anyone with which Mr. Moshelmer has to do), and am greatly interested in the success of Mr. E. Hopkins's system, but see that the experience reforred to in Mr. Moshelmer's letter of February 28 is much more extensive than that which Mr. E. Hopkins speaks of—namely, reducing 60 tons of quartz. Mr. Hopkins may be able to continue this profitably and effectually, or he may not.

Two questions I would like to have answered by Mr. Moshelmer, if he would allow me to ask, aro—What mine does he speak of when he says, "I have myself crushed thousands of tons of gold ore from my own mine?" And, also—Why he calls the efforts of Mr. E. Hopkins to get gold by men washing on woollen blankets "hopeless." B. March 11.

BRAZILIAN GOLD MINING:

BRAZILIAN GOLD MINING.

SIR.—Capt. Trelonr is mistaken in his supposition that Santa Anna is the only Brazilian mine which has afforded its purchasers eight hundred and eighty oitavas of gold during their first months' work. In the first four weeks after Gongo Soco was bought by the Imperial Brazilian Mining Association its produce was more than eight thousand seven hundred oitavas.—March 9.

H.

ALTERNATIONS OF TIN AND COPPER DEPOSITS.

SIR.—Will you allow me to state in the Journal that it was my idea in 1845, before Dolcoath was cut rich in tin in the bottom, that tin would be found under courses of copper, and copper again under the tin; and Mr. Charles Fox now seems to be of the same opinion. I erected the first engine in the Grenville district—in fact, on the spot now Grenville Mine, and then Newton Moor. I borrowed the engine of the late Capt. Teague, of Redruth, and after all was obliged to give it up, as all the clever ones said the lodes would be cut out as soon as they touched the granite. West Basset, North Basset, or South Frances, at the time I allude to, had not been discovered. I believe, however, that the west end of Old Polgine

Mine, in Grenville sett, is as good a mine as either of the lot.

I am led to make these remarks from reading the recent able address of Mr. Charles Fox, at the meeting of the Miners' Association of Cornwall, from which I extract the following—

from which I extract the following—

"In conjunction with the late Lord de Dunstanville, some of us spent much on the lodes of Burnecose, Tregajowan, and Wheal Fanny, relying on the character and quantity of the gossan at that time supposed to be immediately over the ore, instead of being connected with it (as it was) in abundance on the east or west. Until late years, when the occurred under courses of copper, it was but little wrought; recent experience shows how great may be its importance. Whenever such a coalition of the lords and adventurers in different setts may take place as may warrant their pursuing under very long leases the deepest and most extensive workings, for the simultaneous draining and exploring of numerous adjacent lodes, productive at less depths, courses of copper may again be found below the tin."

The following remarks are extracted from a letter which I addressed to the Cork Southern Reporter, of Oct., 1845:—

"On the top or back of lodes there is very often found a brown frony substance, known among miners as gossan, and it is by the character and quantity of the gossan that most miners can determine, with a great degree of certainty, whether or not copper is likely to be found underneath it; and it is a curious coloudence that in some of the most valuable copper mines in Cornwall tin has been first found, then copper from 150 to 250 fms. deep, and then tin again, and it is not improbable that, if machinery of sufficient power to draw up the water and stuff could be erected, tin and copper might be found alternating with each other, a depth of many miles."

WILLIAM THOMAS.

Coosheen Cottage, Cork, March 10.

WILLIAM THOMAS.

WHEAL HARRIETT, AND PENDEEN CONSOLS.

SIR,-In my last letter I stated that I would soon give the "envious

WHEAL HARRIETT, AND PENDEEN CONSOLS.

Sir,—In my last letter I stated that I would soon give the "envious brokers" (as a correspondent in your Journal styled them) another opportunity to show their spieen. I now fulfil my promise.

The first mine I would recommend to the reader's notice is WHEAL HARRIETT, a mine which I consider remarkably cheap at its present price. —3‡ to 4. As in the case of other mines I have written about, I will continue the plan I have adopted with them with this one also; that is, I will give my reasons why I consider that the shares in Wheal Harriett ought, at the present low price, to be bought. The mine is situated in the parish of Camborne, one of the richest, if not the richest, metallic district in Cornwall—the district in which are Wheal Seton, West Wheal Seton, New Wheal Seton, Dolcoath, Wheal Grenville, North Roskear, and other valuable mines. Wheal Harriett is both at in and copper mine, and the shares were lately selling at 6 to 6\(\frac{1}{6}\); at that time the 115 fm. level was worth 100l. per fm., but at the present time it is valueless, and hence the reason of the great fall in the price. The lode in the stopes west from the cast winze, below the 100, is worth 60l, per fm., and the stope east from the west winze is also worth 60l, per fm. This is the tin part of the mine. The ends and shaft in the copper part are worth 23l, per fm.

Now, the agent is of opinion that, even from the present reserves of tin, the mine can pay 500l, per month profit for 12 months. Parties not connected with the mine say it cannot be done for mere than half that time. Well, let us suppose that the mine pays only 250l, per month profit for 12 months. Parties not connected with the mine pays only 250l, per month for 12 months, what may we not expect at the expiration of this time from a mine situated as Wheal Harriett is, and which is already paying its expenses. It is now significant to the remines, but I would ask my readers to compare the prespects of Wheal Harriett with others with to the sw

be declared, and this alone will, lexpect, cause an advance in the price of the shares. I have airendy advised speculators to average their shares bought at a high price, and I now advise those who have never as yet speculated in the mine, to buy 20 or 30 shares at the present low price, as I feel confident the risk is but very triffing, whilst the chances of success are remarkably good.

The next mine I shall notice is PENDEEN CONSOLS. The last general meeting took place on Feb. 24, and, from the printed accounts, I find that the copper ore sold in the two months amounted to 3645. 78. 64.; together 16211. 10s. 11d. The dues and expenses being deducted, leave a clear profit of 2421. 8s. 6d. on the two months working, which, added to the credit balance from the previous meeting, will show that the mine has now a credit balance of 14611. 18s. 3d. There was also more than 3001, worth of tin ready for dressing. By referring to the agent's report I find that the ends are worth 601, per fm. for thin; the stopes about 1001, per fm., and the winner in the 118 south 901, per fm. for the length of it. The copper part of the mine is now very poor, but they are expecting to cut the "great Pendeen lode" were shortly; and as this is generally supposed to be a valuable copper land of the mine is now very poor, but they are expecting to cut the "great Pendeen lode" were shortly; and as this is generally supposed to be a valuable copper londe as it is now a tin mine. At the present time, however, we must look at it as a tin mine only, for although copper will for some time continue to be raised (even independently of the "great Pendeen lode") it is to the tin department we must now look. In the 118 south the lode is now worth 601, per fm., and the stope behind the same is also worth 602, per fm. for its length, as before mentioned, and my reason for again referring to it is, that although the next level to it—vis., the 130 south—is at present peor, the agains expect a great improvement in it in about a week or fortinght's time,

reached it the level was without ore at that point where it was expected to be found. Such cases are, however, more the exception than the rule. With many mines the fault is that they have too much machinery for the quantity of ore produced; but in Pendeen Consols the case is reversed, as here they have considerably more ore than their machinery can manage, therefore they are about to erect extra stamps. This will, of course, require money, but the agent says "With increased stamping power we shall have no difficulty in returning tin to erect any other machinery we may require; and, should present appearances continue, give the adventurers profits at the same time."

at the same time."

Pendeen Consols has never been much of a "market mine;" why I do not know; but a mine with so much work done, with such splendid prospects, with a good balance in hand, with monthly profits making, and with the accounts brought up close to the time of meeting, and kept in a most business-like manner, it surely ought to command the attention of brokers, and so cause them to recommend the mine to their clients. When I see some mines puffed off, and continually recommended to the public, which mines, in comparison to Pendeen Consols, are mere trash, I am afraid some brokers do not study their clients' interest quite as much as they should. I will conclude by saying that I believe both Pendeen Consols and Wheal Harriett are perfectly safe to buy at no present prices.—L'arch 12.

EAST WHEAL BASSET.

Sin, -Some excitement having taken place about the discovery in this mine, I think it necessary, to send you a few lines, to say that the lode in the 100 does not look quite so well. I cannot now value it at more than 60, or 70, per fm. The 70 east, on the tin lode, has improved, but there is no alteration in the other parts of the mine. March 12.

W. RICHARDS.

THE TYWARNHAILE MINING COMPANY.

THE TYWARNHAILE MINING COMPANY.

Sun,—Beinz a shareholder in the company recently formed for working this mine I was astonished at finding the remarks on the property which have been introduced into the report of the Council of the Prince of Wales relating to the Duchy of Cornwall. The subject interesting so many of your readers, I must ask you to spare sufficient space in the Journal for the statement, that some one officially concerned may offer such explanation as they can, in order to allay the fears which must arise to those who have embarked their capital in the undertaking on reading such an unsatisatory opinion of its value. I should not have attached so much importance to the matter had it proceeded from any other source than the official Duchy authorities.

"Trwanhallae Miss.—It may be right here to notice a subject which involved rather a large expenditure from the revenues of the Duchy, occasioned by the abandonment of an important ratine work within the manner of Tywarnhalle, in Cornwall, which had been carrried on for a considerable period under the name of the United Hills, afterwards called the Tywarnhalle Mines, and had yieleide a considerable income to the Ducky, averaging upwards of 10004. a year. The adventurers having in 1847 resolved to discontinue the workins, it was represented to the Council that unless they were continued not only would the property in that and the adjoining mines, from the indux of water and other causes, he entirely lost, but a large body of miners would be auddenly thrown out of employment, and, with their families, exposed to great privation; and as it was not found practicable at the time to obtain parties willing to prosecute the adventure, the council determined, with a view of saving the property from destruction, to continue the workings at the expense of the Duchy for a time, in the hope that some parties would utilized, with a view of saving the property from destruction, to continue the workings at the expense of the Duchy for a time, in the hope that some

CLIFFORD AMALGAMATED MINES.

CLIFFORD AMALGAMATED MINES.

Sin.—I was glad to see, in last week's Journal, the letter of "A Clifford Shareholder." Certainly the state of affairs and the management of the said company do need some little ventilation. What change has come over it I cannot say. Only three years since I gave 330l. for a Wheal Clifford share, since divided into five, the price of each of which would be 66l., now quoted in the market at 20l. The amalgamation of Clifford with the United Mines was considered to be (so far as I could learn) a good step for all parties; subsequent dividends, however (or, rather the present no-dividend), seems to tell a different tale. I was surprised that the report should say nothing of the resolution about the tenders for materials. If there is a hitch here, I can, in some measure, account for the state of the company. I will tell you what took place in my own neighbourhood some few years ago. We had a Steam Navigation Company here—120l. per share paid up. For years the company paid nothing to the general body of proprietors, and the shares were down in the market to 26l., 26l. And why? All the income of the company was absorbed by the repairs of vessels and supply of stores, both of which were in the hands of a few shareholders. A change of constitution and management was determined upon, and the good result was speedily apparent. The shares are now selling at 100l., and for the last few years the company has regularly paid, in dividends, 5 per cent, per annum on the 190l, per share paid up. I wish something similar may be done in the case of the Clifford Amalgamated. Here is a mine selling in only two months (December and January last) ore to the amount of 90341, and yet, in Pobruary, not a shilling of dividend for the shareholders. Against this 9230l. we have—Labour cost, 1518l.; merchants' bills, 2400l.; coals, 1350l., &c. We see how the money goes. Let the general body of shareholders keep a sharper eye on the management and the cost for Jabour, and insist on the supply of all materials and st

TOWN OF CAMBORNE.

TOWN OF CAMBORNE.

Sin,—This village, or, as it is generally called, Church-town, may be denominated the "town of miners," being, 9-10ths of it, inhabited by men of that occupation. Within living memory it has increased from 36 to about 1500 houses, and contains a popular of about 7000. This shows what mining on an extensive scale in any locality will effect. About one mile oastward is the village of Tuckingmill, where Messrs. Bickford and Co.'s celebrated safety-fuse manufactory stands. Within my memory this village consisted of about 10 houses—it contains at present about 460 or 500; and within the same period Redruth, two miles further east, has been quadrupled in size. These three places are within the richest mining district in the world—the Bulters, Basasts, Tolguses, Satons, Pools, Roskears, Dolcoath, &c., being embraced therein. The houses are so rapidly increasing in the direction of Tuckingmill that in a short time Camborne and Tackingmill will become one town. Between Tuckingmill and Redruth, the village of Pool also exhibits a vast increase within a few years; that, too, will be annexed to the same town in a short time. Houses in Camborne, and the other places above named, are in great request, and may be let as soon as the foundation-stone is laid. The rent range higher at Camborne, I believe, than in any other place in the county. The stone of which most of the walls consist is a brown elvan, dug from quarries within and near-the town. The quality of the buildings has improved since Capt. Joseph Vivian undertook the superintendence of Sir R. Vyvyan's property in the town—the houses being now built in a very substantial manoer; and so in the lands of Mr. Basset and Mr. Reynolds. The tenure granted to the lessee's 199 years, determinable on the decesses of three persons of the lessee's nomination, sometimes with one life or more in reversion, at fixed "fines." No freehold can be purchased in Camborne, as in most other towns, the whole being the entailed lands of Sir R. R. Vyvyan, Bart., Mr. J. P. Ba anded places. The behaviour of the attenuants is a machine and the ministers are generally enlightened and faithful. There is a mechanics tutte, library, and lecture-room, where all classes may acquire what is useful and rutaining, at a small cost. There is also a Mining Exchange in the town, where themen of the share-broking profession meet to transact their business. But there small cost is the share-broking profession meet to transact their business. But there smallestes of which Camborne is not possessed—water-works, sewerage, and paving. The lighting is also very defective, the few lights they have being dependent on the voluntary subscription of a few gentiemen, some of whom are fickle-minded, paying, perhaps, one year and not the next. Of all things required for the safety, convenience, and health of the town, water is paramount. If a fire were to happen, there is no water, except in pumps, and no fire-engine—so that the linabitants live in jeopardy every hour. There is scarcely a properly-constructed sewer in the town; the dirty water mostly runs through surface-drains. Some parts of the town in hot weather smell most offsensively from exhalations from cesspools, &c. The miners do not appear to be convinced of the danger to their health arising from these nuisances. There is one particular in which I observe an improvement in their habits within the last few years; I refer to the more general erection of a little building sometimes known by the name of a "convenience." The question of a water supply being now taken up by genilemen of the town, the want is likely to be met with in a year or two. The beat way to most all the wants referred to is to place the town under the operation of "The Health of Towns Act."—Truro, March 4.

R. Symons. The lighting is also very defective, the few lights they have being dependent on the

ST. JUST CONSOLS, AND TIN MINING AT ST. JUST.

ST. JUST CONSOLS, AND TIN MINING AT ST. JUST.

Size,—A correspondent in last week's Journal has drawn the attention of the public to is company, now being advertised in your columns, as a means for the investment of pital in mining with greater safety than usually afforded, and has stated with much armess and precision his reasons for assuming it will be a most satisfactory undertaker. I agree with him that it is a most splendid opportunity for the readers of the urnal to embark in really legitimate speculation; and I will candidly confess that if e public will take the trouble to apply for a prospectus, and read it carefully, they cantally gone into, and the conclusive manner in which the high merits of the undertaking is critically gone into, and the conclusive manner in which the high merits of the undertaking east forth; but there is one feature in it which is, perhaps, more important than all so other reasons adduced, and that is that the management of the mine will be under eactive superintendence of Capt. John Carthery, who is bringing the St. Just United ines into so highly satisfactory a position in the short space of twelve months—thus eping the promise he made when he reported on the property originally; and I see he is promised to do the same for St. Just Consoly. It is these men who reflect honour on

the mining interest; and they deserve to be well supported by investors, large and small. I need not enlarge on this, as the whole thing speaks for itself, and no doubt the public will daily appreciate it; all I have to say is, that my confidence is very great in its success, and believing that it possesses all the favourable prospects of early satisfactory results, I have applied for a good number of shares. I notice by the weekly report that they are aiready getting out tin; and a friend writes that they are only waiting for the crection of adequate machinery to have it in the market. This, coupled with the fact that there is to be no call for twelve months, and the whole concern under such excellent practical management, renders further remark unnecessary, and no doubt it will be fully appreciated by the public.—March 12.

Another Shareholder,

WHEAL PROSPER (BREAGE).

WHEAL PROSPER (BREAGE).

Sin,—Will you oblige me by inserting the following in the Journal, in answer to a paragraph which appeared in the Notices to Correspondents of last week, under the heading "Wheal Prosper," by a person calling himself "A Large Shareholder." I beg to inform "A Large Shareholder "that he has either committed a great error in his statement from not knowing better, or done it for the purpose of prejudicing the other shareholders. Capt. Cartis inspected the mine for a shareholder at the last meeting, and was asked by the starcholders there assembled his opinion of the mine: his nawer was, to open more ground on the todes, and the mine would soon be in a self-supporting position. Owing to there being no dry underground elothing in the mine, I slept in the district, and the following morning i inspected the underground department. The engine-shaft is not, as "A Large Shareholder" describes it, sinking at a heavy cost. The price paid for it is 141, per fathom. This practical men know is a very easy price. Lavels driven on the course of the lode from 31, to 41, 10s.; backs stoped from 21, 5s, to 21, 10s. No one can say that this is expensive ground. I also contradict the agent's attenuent as regard Treworvas lode being cut. I thoroughly believe it is not, for the following reasons. The engine lode is a caunter, running 35° to 45° south of east. Traworvas lode is an experiment of the considered a caunter, and parallel about 20 fms. cast of engine-shaft, on engine lode. Porthe-cue lode is diver to cut Treworvas lode in a slanting direction north. To the north-west about 50 or 60 fms. is a lode to be seen at the aftit level, which they have hitherto called Treworvas lode in a slanting direction north. To the north-west about 50 or 60 fms. is a lode to be seen at the aftit level, which they have hitherto called Treworvas lode in a simulation of particular that long distance, also in turning and twisting from allit to the 30, in a diagonal direction, no one can toil to 30 fms. where they will find Tre

PREVENTING ACCIDENTS IN COLLIERIES.

PREVENTING ACCIDENTS IN COLLIERIES.

Sir.—It is, of course, with the best possible intention that Mr. James Rae, of Greenwich, has designed his arrangements for preventing accidents in collieries, but I fear that he has had too limited a connection with coal workings to enable him to effect the object he seeks to attain. His proposition is one which could only secure the countenance of those who have never seen a colliery, or of those who work collieries for pleasure, and not for profit. I should not have alluded to Mr. Rae's invention except to prevent him, as a gentleman that would benefit his fellow-men to the fullest extent of his power, wasting money in the development of an idea which can never be of service either to himself or anyone else, owing to its disadvantages being very materially greater than its advantages. I think you acted very wisely in expressing no opinion upon the merits of the invention, because whilst I can readily see that you could not say anything in favour of the project, to condomn it might have discouraged future inventors, and have caused some really useful proposition to be kept secret.

Even to leave the question of cost entirely out of consideration, there are insurmountable objections to its introduction; it would not even have been useful to prevent the Hartley accident, for really as a means of escape it is

insurmonntable objections to its introduction; it would not even have been useful to prevent the Hartley accident, for really as a means of escape it is no better than the ordinary pumps, as the falling of the beam would as effectually have broken up Mr. Rac's pipes as it did the pumps which were in the shaft; and there would have been just so much the more debris to remove before the men could be reached. With regard to his proposition to use iron tubbing, it is, no doubt, valuable, as is proved by the fact that it has been in use in the district for many years.

has been in use in the district for many years.

To turn to the expense of the project, it will be apparent that there will be a rise of at least 25 per cent. in the cost of working, for as his tubes, to be useful, must be 24 or 30 in. in diameter, it will be evident that to obtain the same amount of ventilation as is now secured with a gallery 5 ft. square there will be 25 per cent. more cutting required to make room for his pipes and, if to this we add the consideration of the cost of the pipes themselves, we shall at once see that the price of coal must be one-half as high again as at present to compensate the coalowner for his additional outlay. The only satisfactory use to which the pipes could be turned would be to draw coals with them upon the principle of the Pneumatic Despatch Company

THE PATENT LAWS.

SIR,-It cannot be disputed that the patent laws are most unsatisfactory

Sir,—It cannot be disputed that the patent laws are most unsatisfactory, and require a thorough reversion. At present the opponents to the granting of patents point with much force to the great proportion of patents being of a most frivolous character, and, therefore, advise their entire about the properties of the great proportion of patents being of a most frivolous character, and, therefore, advise their entire about the state of the propersion of specifications lends material rid to the true original inventor, but would foster a system of secreey and misrepresentation. It must be admitted that the publication of specifications lends material rid to the inventor in informing him of the progress made in any particular department.

The idea of refusing a patent on the ground of its being a monopoly is inconsistent with the trath. Certainly that which had no previous existence cannot deprive any one of any right aiready possessed. In English law a monopoly is defined to be "an allowance of the Crown, by grant, commission, or otherwise to any person or persons for the sole buying, selling, making, working, or using of anything, by which other persons are restrained of any freedom or liberty that they had before, or hindered in their lawful trade." No original invention can possibly be deemed a monopoly. It is, in fine, calling into existence some effect, by the aid of chemistry or mechanism, or their combination, which was not previously known. No patent should be granted except it came strictly under that category.

The hectilental discovery of a diamond or a nugget of gold gives the finder an actual

ing into existence some effect, by the aid of chemistry or mechanism, or their combination, which was not previously known. No patent should be granted except it came
strictly under that category.

The accidental discovery of a diamond or a nugget of gold gives the finder an actual
property. Anyone who has gone over the same ground might have found the diamond
or the gold. The inventor, however, requires to be fitted by a knowledge of his subjoet, obtained by education or experience, before he can successfully remedy defects, or
meet public requirements. No one is forced to use an invention; nor, as a rule, is
it is, therefore, not anticlent to merely invent, but the invention must be made of public
utility. He whose education and talents enable him to devote his time to benefit others
surely cannot be denied compensation for so doing. If that were to be admitted, no profession, art, or calling would be exempt. Mental property should, of all others,
surely cannot be denied compensation for so doing. If that were to be admitted, no profession, art, or calling would be exempt. Mental property should, of all others,
surely cannot be denied compensation for so doing. If that were to be admitted, no profession, art, or calling would be exempt. Mental property should, of all others,
surely cannot be denied compensation. These cases must necessarily be the exception to the rule. It
would be quite as consistent to make the medical man, the clergyman, or the lawyer
give their intellectual acquirements without reward as the inventor. Free trade in
mind is an abstract iden—a mere myth; in fine, it is incompatible with our intellectual
capacities. Intellectually, men are not equal.

Free trade in thought, if such were practicable, would destroy that ambition and zeal
which prompts the man of superior genius and mental capacity to devote himself to the
task of surpassing all previous efforts. Imagine the work of a sculptor or painter, produced after years of toil, which for its excellence commanded universal adm

-that free trade sh uld be carried to th

stabilished the grades of society. Destroy all species of protection, and adopt the ultrademocratic idea—that free trade should be carried to these extreme limits—why, then,
should one have protection for any species of property? On this principle the pickpocket
takes your watch because he has not one of his own. Those who were lately convicted
of making Bank of England notes no doubt thought themselves free tradesmen in this
sense. It is a singular fact, that the most noisy opponents to patents are those who are
desirous of, but are now prevented from, appropriating to themselves the patent inventions of others. Why do not these invent some method of arriving at the same resuits?
If not, why should they object to pay for that which they of their own free will use,
when it is not imperative that they should do so? Surely, that which is worth having
is worth paying for. That the user is benefited by the adoption of any particular invention is self-evident, or why does he use it? In all our relations of life, from the most
trivial to the most important, do we not pay for benefits received?

The abuse to which the present system of granting patents is carried may be illustrated by a case which recently came under my notice:—A person with whom I was in
conversation on the subject of steel shirt-collars, he wearing one, complained how stiff
and inconvenient it was, though in other respects answering the purpose, when I joceaely said, "Why do you not get some of Dr. Cattell's refined gatts percha, or add
magnesia to'a preparation of gotta percha; it would make a capital collar?" This person,
without ever informing me of his intention, goes to a manager of a patent agency company states his discovery, pays 34, and the provisional specification actually includes
not only Dr. Cattell's preparation, but the addition of magnesia! Had I said arrenic,
calomel, or cream cheese, I verily believe it would have formed part of the specification.

How is this to be accomplised? The only method to meet such cases is to

the option of taking out a patent independently of the adverse decision arrived at by the examiners. Such a course would be like a medical student being able to obtain his diploma independently of the examiners, after they had found him incompetent to receive it. The more rigid and searching the investigation prior to the 1 ranting of letters patent, the more valuable the patent when granted.

To point out the benefits which the public derive from inventions would be to recaptulate the introduction into this country of gas, steam-ships, the locomotive, electric telegraphs, improvements in nearly every department of industry, by which the few millions of England's population are enabled to supply the world; without which the production are made that the public derive for the production of all her operatives would not be sufficient for her own demands. In fine, invention has rendered this empire the greatest and wealthiest of the nations. Who will then, with honestly, deny to the true original inventor the only recompense—a limited protection—for his labour and time in the accomplishment of such mighty national benefits. The whole system attendant on the obtaining of a patent, as a tressent practised, is a fraud and a decoption on the poor inventor. There are those who make a regular business of speculating on his necessities. Many of the most valuable inventions are lost to the owner from his incapacity to meet the present enormous Government fees. There are but very few patent agents or attorneys adequate to the responsible duty they have as sumed. The consequence is, that when the specification is brought before a legal tribunal is is found defective, and very often not in accordance with the ideas or intentions of the inventor. These and many more defects, consequent on the present atnot of the law, would be effectually remedied if a preliminary tribunal were to be instituted; no application to pass or receive a patent which did not faill all the conditions essential as constituting an original and true inven

THE GEOLOGICAL FORMATION OF THE EARTH.

Sir,-The subject of the internal structure of the earth is one which has

SIR,—The subject of the internal structure of the earth is one which has been so much discussed in the Mining Journal, and one upon which so little has been put forward calculated to assist those interested in forming any definite conclusions, that it would be interesting to your readers to learn of any hypothesis based upon really tenable grounds. The theories that the centre of the earth is a mass of liquid fire certainly cannot be assumed to be a very tenable opinion, and that it is water is quite as bad, whilst the supposition that everything which we observe is due to electric action may equally be passed by as worthless.

First, as to the theory of internal fire; it must be remembered that, although experiments have conclusively proved the temperature of a furnace would be so quickly reached that there could only be a thin shell of solid matter surrounding millions of square miles of liquid fire, and we know enough of the nature of fire, if not of its composition, to conclude that if such a state of things existed the crust of the earth would be destroyed in less than an hour; for such crust would be as useless to extinguish the vast body of fire within as a sheet of tissue paper covered over a blast-furnace would be to put it out. As to the theory that the centre of our globe is an immense body of treats it will here the part of the centre of our globe is an immense body of the centre of the second over a limit to the such that it is a firm of the centre of our globe is an immense body of the centre of the centre of our globe is an immense body of the centre of the centre of the centre of our globe is an immense body of the centre of the centre of the centre of our globe is an immense body of the centre of the centre of the centre of our globe is an immense body of the centre of the centre of the centre of the centre of our globe is a centre of the cent less than an hour; for such crust would be as useless to extinguish the vast body of fire within as a sheet of tissue paper covered over a blast-furnace would be to put it out. As to the theory that the centre of our globe is an immense body of water, it will be apparent that it cannot be so, for, as water will not compress, we know that the heat which must prevail even at a few miles from surface must be so great that steam would be generated, and our poor earth would be converted into a great boiler, which would speedily be shattered in fragments to all parts of the universe, so that London might take up its position in Venus or the Sun, whilst our Australian colonies would be blown to Jupiter or Uranus, and thus become quite useless to us. To turn to the electro-magnetic theory, I am afraid I could pronounce no more favourable an opinion, for although it must be admitted that electricity is latent in a vast number of substances known in Nature, to ascribe the production of natural phenomena to that agent we should to ascribe the production of natural phenomena to that agent we should have to suppose a state of activity—that is to say, an amount of active electrical action that if on meeting a friend we attempted to shake hands with him the electric light in its greatest brilliancy would be produced at the ends of our finerer.

with him the electric light in its greatest brilliancy would be produced at the ends of our fingers.

None of these theories, then, are tenable; and taking a combination of known facts, we require some hypothesis which shall admit internal heat many times greater than that of a blast-furnace, in conjunction with absolute solidity, and show that our notions that intense heat must produce fluidity are not necessarily correct. I have just been reading Prof. Tyndall's lectures on "Heat as a Mode of Motion," wherein an hypothesis promulgated by Mr. William Hopkins, of Cambridge, is referred to, which I think meets all the requirements of the case. To thoroughly appreciate Mr. Hopkins's assertions, there are several facts which must be considered. Prof. Tyndall demonstrates by palpable experiment that wax under pressure is more difficult of fusion than when there is no pressure upon it, and from similar experiments Mr. Hopkins concludes that the pressure upon the materials forming the interior of the earth would compensate for the increased heat, so that although the temperature should increase from surface at the rate ascertained by experiments in our deepest mines, there would still be nothing to justify the supposition that the solidity of the said materials would be jeopardised, and with this view I believe all impartial readers of the Mining Journal will agree.

Soph.

Meetings of Mining Companies.

CARADON CONSOLS MINING COMPANY.

A general meeting of shareholders was held at the company's office, ustinfriars, on Wednesday,—Mr. Buckland in the chair.
Mr. E. King (the secretary) read the notice convening the meeting, and

Call 571 5 0

made upon the present occasion of 15s. per share, which would provide a sufficient amount to liquidate the balance, and pay the current three months'cost. It was always more satisfactory to shareholders to find that funds were provided for coming liabilities rather than for liabilities already incurred. In answer to a question, he stated that the monthly cost for coal did not exceed 20f.

Mr. James enquired the distance of the Caradon Consols boundary from West Caradon?—The Secretary replied that the distance was about 70 fms.

The Chaimman remarked that the accounts had been examined by Mr. Stauffer, and found to be correct.

The CHAIRMAN remarked that the accounts had been examined by Mr. Stauffer, and found to be correct.

The SECRETARY said that one great advantage derived from the improvement in the 54 had been the reduction in the cost of driving from St. to 50s, per fathom. He might, perhaps, mention that Capt. Johns, of West Carredon, had stated that the indications now presented in Caradon Consols in the 54 were precisely similar to those which West Caradon always presented previous to the discovery of their great bunches of ore. The report was received and adopted, and the accounts passed and allowed.

Upon the proposition of Mr. Richard Hawke, seconded by Mr. Mackensie, a call itse, per share was made.

The committee of management were re-elected, with thanks for past services.

A vote of thanks to the Chairman terminated the proceedigs.

CONNORREE MINING COMPANY.

A general meeting of the shareholders of this company was held at their offices, Dame-street, Dublin, on Thursday, when the following report

A general meeting of the shareholders of this company was held at their offices, Dame-street, Dublin, on Thursday, when the following report was presented by the directors:—

"The proprietors must be well aware that, in consequence of the continued depression of the aikali and other chemical trades, arising principally from the war still raging in the American States, the sales of sulphur ores (the staple produce of these mines) are yet but trifling, and at correspondingly low prices. While this state of things exists the directors have, in pursuance of the determination expressed in their last report, deemed it their best course to apply themselves energetically to the development of the great quartz lode, and the other copper resources of the mines.

The managing directors' report shows that considerable progress had been made in the chemical experiments for the extraction of copper from the cree, as well as in their mechanical dressing, so much so that very satisfactory results, commercially speaking, may be reasonably expected, such (as is expressed in a previous report) as will make the company to some extent independent of the trade in sulphur. In carrying out these respective operations, Capt. W. G. Roberts, their consulting canjacer, and Mr. George W. Maynard, a practical chemist from Clausthal, in Germany, have been most skilful and indefatigable in working out the several laborious and intricate chemical experiments necessary to arrive at a practical result; and in the mechanical dressing of the ores, Capt. W. Blahop, a Cornish miner, highly recommended to us, has applied himself dilinguity to the raising and preparing them for market. The economical management of the affairs of the company consistent with good maintenance of the mechanical experiments necessary to arrive at a practical result; and in the mechanical intensity of the ores, Capt. W. Blahop, a Cornish miner, highly recommended to us, has applied himself dilinguity to the raising and preparing them for market. The economical management of

SCOTTISH AUSTRALIAN MINING COMPANY.

The fourth annual general meeting of proprietors was held at the London Tayorn, yesterday,—Mr. WILLIAM HENRY DICKSON in the chair.

SCOTTISH AUSTRALIAN MINING COMPANY.

The fourth annual general meeting of proprietors was held at the London Tavern, yesterday,—Mr. WILLIAM HENRY DICKSON in the chair.

The notice convening the meeting having been read,
The report of the directors stated that since the last meeting stremous and urremitting efforts have been made to reach and cut through the iode in the Good Hope Mine at the depth of 30 fms.; to open and lay out the Cadiangullong Mine, and to begin to develope its resources; to open and lay out the Cadiangullong Mine, and of the mines belonging to other parties in the same district; to form a branch line of rallway; and establish a colliery near Newsante; and so far as opportunities might occur for doing so, to make arrangement calculated eventually of the following the state of the company to favourable account. As regarded the Good Hope Mine, it was a stated the company to favourable account. As regarded the food Hope Mine, it was a stated the company to favourable account. As regarded the rich as it was at the surface) had much improved from what it was at 16 ms. nearer to rich as it was at the surface) had much improved from what it was at 16 ms. nearer to its outcrop. Capt. Holman specially reports that near to where the lole is cut at the 30 a second lode joins and falls into it, and from this circumstance, as well as from the fact that the lode had so much improved from the 15 to the 30, he is inclined to expect a favourable result from further operations at deeper levels. Heferring to the Lambton Colliery, the report stated that the manager had secured leases of 1240 acres of coal-bearing land, near the west side of the town and port of Newsastle, for which a yearly rent of 5s. per acre has to be paid until the same shall be converted into a freehold, and which conversion, as regards the whole or any part of 900 acres thereof, may be effected at any time at a cost of 2.0 per acre; the remaining 250 acres, being part of the land set apart by Government as: "Newsastle Town Pasture Reserves

whoels and axies, furnace bars, tools, &c., 5564.; sundries, 422. Ils. 4d.: leaving a balance in hand of 3010. 8s. 8d. It is anticipated that another call of 2s. 6d, per share will shortly be found necessary.

The CHARMAN said that all the information possessed by the directors with respect to the position and prospects of the different portions of the company's property had been communicated in the report, which had been in the hands of shareholders some days. That report pointed out that as regards the Good Hope Mine it had been thought more desirable, for the present, to take the staff from there, and employ it upon the Cadiangulong Mine, which was being prosecuted with all the vigour they were able to bring to bear upon it. The precise position of the works at that mine was freely set forth in the report, as was also the condition of the smelting works. With regard to the coal, they were able to speak with the greatest confidence, for three seemed to be but one opinion, that they possessed the best coal in the colony, and the collieries were admirably situated as regards the port of shipment; consequently, attention would be particularly directed to the development of the company's coal property. All the material for the construction of the railway was sent out some time since, and the road, it was expected, was ready to receive it in January last.

Mr. Wan enquired the probable cost of working the coal, and what profit it was excitanted would be realised by its sale?

The CHAIMAN and that at present the directors were hardly in a position to give a decided answer upon that point, but, from the general information they possessed, it might be safely stated, he thought, that the coal could be sold at a good profit, and that the demand was greatly increasing. He might mention that Mr. Morehead estimated it that the expenses of working the company's colliery would be less than any that had yet been established in the colony. It would be seen from Mr. Morehead selector "that the best efforts were used to bring t

machine.

Cities seconded the proposition.

Wurged upon the directors the desirability of developing the coal property

glectons manner practicable.

The Chairman, in answer to a remark, stated that the directors had always endea-oured to keep down the expectations of the shareholders, but he considered the board

The CHAIMMAN, in answer to a remark, stated that the directors had always endeavoured to keep down the expectations of the shareholders, but he considered the board were bound at all times to place before the shareholders every item of information received from what they believed to be reliable sources. Mr. Morehead was a man far beyond anything like suspicion, having given for a series of years the most unqualified satisfaction in other quanters. His (the Chairman's) own opinion was, that if there was one man in the world more reliable than another it was Mr. Morehead.

A SHAMENDLER thought the directors should be in a position to give some reasonable estimate as to the cost of raising the coal, and suggested that the shareholders should be colled together offener than once a year.

Mr. Come thought a mistake had been made in erseting smelting works close to the mine before the shaft had been sunk sufficiently deep to ascertain the permanent value of the lode. He considered the directors must exercise great caution in the control of the expenses at the Cad'angulong Mine; indeed, he would suggest that the expenditure should be reduced to the cost of sinking the shaft.

The CHAIRMAN said it must be borne in mind that there were other ores to smelt besides those returned by this company. The last remarks of Mr. Combo were an echo of the instructions that had been sent out to the colony. The first quantity of 12 toes of ore had been smelted, and there was every probability of the quantity being increased to 40 tons by January last. With regard to the railway, he might state that it would be about 2½ miles long, and would form a junction with the Great Northern.

Mr. Advans inquired what was the proposed future policy of the directors?

ireat. Northern.

Mr. Adams inquired what was the proposed future policy of the directors?

The Chainkian replied that the future policy was to suspend operations at the Good lope, and vigorously prosecute Cadianguliong Mine and the collieries.

After some further discussion, the report was unanimously received and adopted.

The retiring directors, Messrs. J. D. De Vitre and R. How, were re-elected; and Mr. Whethen was re-appointed auditor.

. Whethern was re-appointed auditor.

It was arranged that in future the meetings should be held half-yearly.

A unanimous vote of thanks to the Chairman and directors was passed, which terinated the proceedings.

Great Northern Copper Mining Company of South Australia —The shareholders of this company re-assembled at the London Tavern, on Monday last, at two o'clock, to receive from the directors the result of the poll which was demanded by Mr. Adamson on the previous Thursday, after the proposal for an adjournment, made by Mr. Sangster, was declared carried by a show of hands. Mr. Cope occupied the chair, in the absence of Mr. Donaldson. He stated that proprietors holding 238 shares had polled in favour of the adjournment, and 21,500 shares against it, consequently the motion was lost. Mr. White hereupon, on the part of himself and the two other members of the late committee of investigation, read a protest against the legality of a ballot being taken on the question of adjournment. The solicitor stated that the course adopted by the directors was regular and legal, and the Chairman stated that the opinion of eminent counsel had been obtained, which fully confirmed the views of the solicitor. The original motion, that the directors' report be adopted, was then put and carried unanimously. The retiring directors were re-elected, then put and carried unanimously. The retiring directors were re-elected, and Mr. Adamson, of Aberdeen, was added to the board. Mr. Trenow, the auditor, was likewise re-elected, and Mr. T. B. Jones, a professional accountant, was nominated to act with Mr. Trenow. In answer to questions, the Chairman mentioned that the expenses of management in London had been further reduced by 300l., and about the same amount in the colony. The meeting then broke up.

WASHING ORES AND MINERALS.—A simple form of apparatus for washing ores, minerals, and metalliferous earths, whether of the richest or poorest descriptions, has been patented for Messrs. Baron, of Paris; it consists est descriptions, has been patented for Messrs. Baron, of Paris; it consists in the employment for that purpose of a long tapered vessel, partially filled with water, open at the top, and provided near its surface with a corresponding shaped trough, slightly inclined downwards toward its narrow end. This trough receives a longitudinal vibratory motion from a crank or eccentric on the main actuating shaft of the machine, and it also receives a simultaneous rocking motion in a lateral direction. The bottom of the vessel has a number of closed apertures for removing the deposit that collects thereon, which are nearer together as they approach the narrow end of the vessel, at which part they are separated by double inclined partitions. The feeding hopper is provided with a rose jet at its discharging mouth, which directs a number of fine streams upwards into the minerals or cres contained therein, such minerals or ores having been previously crushed. The richest cres or minerals pass down the vibrating trough, and fail over a the end, being thus deposited at the narrowest end of the vessel, whilst the refuse matter and poorer particles are shaken over at the top of the trough before arriving at the end thereof, the poorest being shaken over at the top end of the trough, and the better descriptions lower down, so that each aperture will give a richer product as they approach towards the narrowest end of the vessel. The water in the vessel is atagnant—that is to say, it is not changed constantly by having a current flowing through the vessel, as is the case in other weaking machines.

REFINING SLAG.—An invention has been patented for Mr. Emil Langen,

stagnant—that is to say, it is not changed constantly by having a current flowing through the vessel, as is the case in other washing machines.

REFINING SLAG.—An invention has been patented for Mr. Emil Langen, of Siegburg, Prussin, which consists in an improved mode of removing from the slag its vitreous, stony, and brittle particles, and employing the material thus improved for manufacturing hydraulic or other mortars, bricks, stones, slabs, ornaments, and other articles. In order to remove the vitreous particles he simply causes it to be completely surrounded with water as it flows from the furnace. By coming in contact, and being completely surrounded with water, the slag, flowing as it does at a high temperature, suffers decomposition, and causes a sudden development of steam. The parts of the slag which come first in contact with the water immediately forms pores, into which the water penetrates deeper and deeper until the entire mass of slag is soaked through, and a development of steam from all parts of the slag, takes place continually. By the effect of the water or steam the combination of sulphur, which is present in the glowing particles of the slag, becomes decomposed, in consequence of which the surface of the slage, beginner macerated all over, and are thereby very susceptible for a future combination with cement or item. When the development of steam has ceased, the slag, instead of being a classy, brittle, or stony mass, is formed into a quantity of porous particles, admirably adapted for future combinations. The fine particles of this improved material form excellent sand for mortar, which, amongst other purposes, may be used for cementing the larger pieces of slag to produce artificial stone, slabe, or ornaments. Different kinder lease give various colours.

NAIL-MAKING MACHINERY.—Mr. J. Barclay has completed his patent

produce artificial stone, slebs, or ornaments. Different kind of slags give various colours.

NAIL-MAKING MACHINERY.—Mr. J. Barclay has completed his patent for improvements in machinery for the manufacture of nails; his invention consists:—1. In the mode of heading and pointing nails made from wire.—2. In the mode of cutting off short-pointed strips, the length of the nail, from sheets of metal, and in the use of pressure-rollers for consolidating the said short strips and making same into nails. To manufacture nails from wire, the patentee employs four levers—two working horizontally, and two vertically; the end of each pair of levers operate so as to squeeze the wire to a point, and are operated upon by sildes and rollers. The heading operation is performed by a silding heading tool; a revoiving plate, fitted with spring silding holding tool, a town of the property of the proper NAIL-MAKING MACHINERY .- Mr. J. Barclay has completed his patent

MOULDING SHELLS AND BULLETS .- A machine has been invented by Mr. MOULDING SHELLS AND BULLETS.—A machine has been invented by Mr. W. H. Ward, Auburn, New York, capable of delivering about 6000 bullets per hour of any pattern, form, and size, was some time since introduced both in the United States and in this country, and nearly seven years' experience has proved that the machine accomplishes all that was claimed for it. The mechanism is as near as may be perfect, and the machine has the very great advantage that it wastes nothing, is not liable to get out of order, and requires very little attention in working. The shell-moulding machine, pattented by the same gentlemen, has also been most favourably reported upon by the naval authorities of the United States. The accuracy and perfection of the shell produced by Mr. Ward's machine may be judged of from the fact that the shells are found to be in every way applicable as spheres for supporting and rotating his self-centreing turn-tables, which we have already described.

EXPERIMENTS ON ABMORIL PLATES — Armour-plate experiments were

EXPERIMENTS ON ARMOUR-PLATES.—Armour-plate experiments were resumed at Portsmouth on Monday last, under the superintendence of Capt. R. S. Hewlett, C.B. The plates tested on this occasion comprised resumed at Portsmouth on Monday last, under the superintendence of Capt. R. S. Hewlett, C.B. The plates tested on this occasion comprised three of 4½ inch in thickness of metal from the Elswick Company—two of fron and one of steel, all three made under the steam-hammer, but with the additional novelty attending the steel-plate, that after its manufacture it had been re-heated to an amealing heat, and then cooled in oil. There were also two hammered plates at 5½ in. thickness of metal from the Thames Fronworks and Shipbuilding Company, one of which was a sample plate for the Minotaur iron frigate—building for the Government by the company, add the other was a plate for the Royal Sovereigh* turrets, bent 2½ in. out of a straight line, when heated by the wedge-press process. The Elswick plates falled utterly in offering resistance to the shot from the 68-pounder gun, one from, plate being destroyed by a single shot, the other by two shots, and the steel-plate being broken up in five separate pleces by two shots. The dismeter, depth, and general character of the indents from the shot on the two from plates were of the ordinary description, but those on the steel plate were considerably less than what is made by the shot on iron plates, the diameter of the indents in this case being only 6 in., and their depth only 1 1-10th in. The plate pissessed all the required hardness, but also the fatal fault of brittleness. It was made from the beat Sheffield steel. The two plates from the Thames Ironworks proved to be of an unusually excellent quality, considerably above the average of good A2 plates. It is a remarkable fact in connection with the cast-plate for the Royal Sovereign, that there were no cracks or openings in the metal after it was bent; and even when the plate was broken eventually across its back, in a known weak part of the forging, by the swere pounding which it received, the metal did not open with the curve, but across it. This plate received the shots in a riregular triangular space, 1 ft. by 1 ft. 3 in.

Mining Gorrespondence.

BRITISH MINES.

BRITISH MINES.

ATLAS,—J. Warren, March 11: The 35 fm. level is now in course of driving both east and west of the shaft; the lode in the western end is 16 in. wide, and still continues to improve in size and value, it now being worth 61, or 2 cwts. of tio, per fm.: the lode in the castern end still remains small, and poor for the, but gives every indication of a speedy improvement. In sinking the eastern winze we have this week met with a cross-course about 26, do in. wide, and has greatly improved the lode here in the bottom, which looks well for the 35 east. Since my last report I have put a pare of men to sink a winze in bottom of the 25 west, and I find the lode at this point to be 18 inches wide, producing good work for tin throughout. You will see from the above that the prospects of the mine are more encouraging than they have been for some time part. Our parcel of the mine are more encouraging than they have been for some time part. Our parcel of the mine are more encouraging than they have been for some time part. Our parcel of the mine are more cencouraging than they have been for some time part. Our parcel of the mine are more encouraging than they have been for some time part. Our parcel of the mine are more encouraging than they have been for some time part. Our parcel of the mine are more encouraging than they have been for some time part. Our parcel of the mine are more cenceration of the Prince of Wales's wedding-day was applied to a dinner for all employed at the mine, and the whole affair passed of with the best order. BEDFORD UNITED.—J. Phillips, March 10: The stopes in the 130 west are worth 4½ tons per fm. The lode in the 50 west is unproductive. The atopes in the 118 west are worth 4½ tons per fm. The lode in the 50 west is unproductive. The atopes in the 18 meant and the part of the stopes in the 18 meant are pictured to the part of the stopes in the 58 east. The same remark will apply to the 47 west, on south lode. The stopes in the 58 east. The same part of the deep day to the stopes a

of ore per fm.; the same level to drive west behind a point of horse by four men, at 3t. per fm.; here the hode is 1ft. wide, producing 1 ton of ore per fm. The 20 weat, on the north lode, by four men, at 3t. per fm.; the lode in this end is 1ft. wide, at present unproductive.

CARADON HILL.—F. Pryor, Jas. Williams, March 6: We are still pushing on the adit cross-cut north of Page's shaft, on the cross-curse, with all possible speed; the ground is favourable for progress; set to four men, at 3t. 10s. per fm.; but no lode nor branch has been met with in the past month. Set the adit level to drive east of Fage's shaft, on Davey's lode, by four men, at 3t. Pr fm.; the lode is very promising, principally gossan, with stones of black ore.

CLARA UNITED.—W. Barbery, J. Lester, March 11: Settings for March: Llywernog: The cross-cut, south of origine-shaft, at the 3d, to six men, to pay all costs, including drawing, &c., 5 fms., or cut the wheel-pit lode, at 4t. Jos. per fathom; driven last month 5 fms., now extended in 25 fms. 9 in. We reported that 4 fms. south of the new or caunter lode, having intersected another lode, we have now cut 1f eet across it, but have not yet reached its south wall; the part passed through is composed of clay-slate, friable quartz, blende, and intermixed with lead ore, and is of a promising character, and is likely to form a junction with the caunter lode, about 12 fathoms east of the cross-cut. The 30 to drive west of the cross-cut, on the caunter lode, to pay all costs, including drawing &c., by two men, 1 fm., at 3t.; the lode is 3 feet wide, looking very promising, and is yielding some good work. We have fixed our new pitwork, which is doing exceedingly well, and we expect the water will be in fork in a day or two, when we shalt soon be ready to commence sinking the engine-shaft below the 36.—Clara Shaft: 1s doing the report of a good description in decade of the water will be in fork in a day or two, when we shalt soon be ready to commence sinking the engine-shaft below the 36.—Clara

should any further improvement take place in opening upon the delays. CROWAN CONSUS.—J. Seymour, March 11: The masons are still progressing very satisfactorily with the engine-house; it is now 3 ft. above the cylinder-bed; the bed for the cylinder is completed, and the greater part of the walling for the engine is done. The carriers have brought home nearly all the stone from Leedstown Consels Mine; we have now about stone enough to complete the walls of the house, and are raising good stone from our own quarry for the stack and bolier-house. The engineers are getting on well with taking out the engine; the carriers will commence bringing it home to-morrow. I have let the old burrows throughout the set to the tributer, for

t home to-morrow. I have let the old burrows throughout the sett to the tributer, for inmelf and sons to pick over.

CUDDRA.—F. Puckey, E. Dunstan, March 12: We have no alteration to notice in any part of the mine since our last weekly report. Walker's shaft is still sinking beow the 90, in the killas under the lode; ground favourable for progress. We are also living the 90, west of the above-named shaft, in the killas under the lode. In the 75 west no lode has been taken down in the end, or either of the stopes, since the setting-

low the 90, in the killas under the lode; ground favourable for progress. We are also driving the 90, west of the above-named shaft, in the killas under the lode. In the 75 west no lode has been taken down in the end, or either of the stopes, since the setting day, which was saturday last.

CWMBRANE.—Barch 12: In the new shaft sinking below the 30 the lode is 4 feet wide, and producing 1½ ton of lead per fathom. In the winze sinking below the 30 the lode is 3 feet wide, and worth ½ ton per fm. The 30 driving west, on Thomas lode, is producing good stones of lead. The winze sinking below the 20, on caunter lode, producing 6 cwts. of lead per fm. No alteration in the tribute pitches.

DALE.—R. Niness, March 12: Having found it necessary to put in an extra dam, to raise some water into one of the claterns, we are, therefore, scarcely ready to work the new machinery to day, but, notwithstanding, I expect to have the water out and the sinking commenced by the time I stated in my last report.

DEVON AND CORNWALL UNITED.—T. Neili, March 10; George and Charlotte In this part of the mine there is no change to notice.—William and Mary: We continue sinking the engine-shaft by the side of the lode, and also the driving the 22 west. We have one stope working in the bottom of the 22 west; the lode is producing from 4 to so tone or per fm. The stope in the back of this level produces from 3 to 4 tons per fathom. We have commenced sinking a winze in the 22, cast of shaft, but as yet we are subking by the side of the lode. No alteration in the 22 cast. There are two stopes working in the 10 the. No alteration in the 22 cast. There are two stopes working in the 10; the lode producing 4 and 5 tons of ore per fm.

EAST BEAM.—J. Webb, March 11: We have taken down some of the north lode in back of the 20, and find it fully 6 ft. wide, with tin throughout. This lode in both ends so the same size and character as in the back; the ground is easy, and the backs of the lode can be stoped for 25s, per fathom. If this lode continues as at

EAST CLOGAU (Gold).—E. Roberts, March 10: St. James's lode, in No. 2 level, has improved in appearance and size since my last, being fully 5 ft. wide, of a highly promising character for producing gold, &c. I can assure you the more I see of this lode the more I like it. The cross-cut north of this level is extended 4 fms. through branches of quartz, spotted with copper. The ground is moderately easy for progress.—St. John's Lode: I have this week ordered the men to drive alongside of the lode, and, by so doing, I hope to be able to make greater progress. I have nothing this week to report respecting the lode.—Nos. I and 2 St. David's Lode: I have no change to report to you. The lode continues much the same as for some time past. I herewith send you the cost-sheet for the month ending Feb. 28:—St. David's No. 1 lode has been driven 4 ft., by T. Ellis, W. Jenkins, W. Griffiths, and W. Pugh; No. 2, 3 ft. 6 in., by R. Jones, Pugh, W. Williams, and T. Davies.—St. James's No. 2 lode, 5 ft., by J. Parry, W. Owen, R. Williams, and D. Richards.—St. John's, 2 ft. 6 in., by H. Parry, E. Humphreys, R. Pugh, D. Roberts, D. Tarrett, and J. Moss.—St. James's cross-cut, I fm. 1 ft., by R. Pugh, D. Roberts, D. Tarrett, and J. Moss.—St. James's cross-cut, I fm. 1 ft., by R. Richards, E. Richards, O. Williams, and E. Williams.

EAST DEVON GREAT CONSOLS.—T. Neill, March 10: In the 70 west we have a little lead ore. No change to notice in the 40 north. In the western part of this sett there is an adit level driven 50 fms. on the Devon Consols lode, and which has the same bearing here as where their lode proves productive. In this drivage for 20 fms. long the lode is poor, 1 to 3 ft. wide, composed of gossan, spar, frian, mundic, and a little black copper ore, a very promising lode; and to make a trial of it we have commenced sinking a winze in the bottom of the level, and hope good results will attend this operation.

EAST PROVIDENCE.—T. Uren, March II: There is no particular change in this mine since my last report. We are making

en the caunier lode, by three men, at 30s, per fathom; the lode locks very kindly, yielding good atones of lead. The shallow addit to drive north of the waters hade, by three he lode in the back of the shallow addit, by four nen, at 14s. per fathom; the idee is yielding 2 cwis. of lead per fathom. The whole of the productive ground laid open between the deep and shallow addits has been taken away.

EAST ROSEW AINE.—J. James, March 12: The north part of the lode has not been taken down in Hallett's shall since last reported. We are sinking on the south part over the lode is split into three parts, the south brunch is about \$1 nc.

The saft ROSEW AINE.—J. James, March 12: The north part of the lode has not been caken down in Hallett's shall since last reported. We are sinking on the south part over the lode is split into three parts, the south brunch is about \$1 nc.

The saft ROSEW AINE —In the season was the lode is 16 in wide, worth 26; per fm. The wastern wize, the lode is 16 in wide, worth 26; per fm.

The saft stope, over the 50 west, is worth 36?, per fm. The western stope over the same that the saft stope, over the 50 west, is worth 36?, per fm. The wastern wize, the lode is 16 in wide, worth 26; per fm. The sast stope, over the 50 west, is worth 36?, per fm. The wastern stope over the same that 16 does not for the present yield much ore, but from the level to has been as of lode, and as soon as it gets through this branch will probably be as productive as before. The lode has 16 does not for the present yield much ore, but from the level it has been a so I doe, and as soon as it gets through this branch will probably be as productive as before. The men and the same part of the same part of the same

a little yellow copper ore. In the cross-cut north (Williams's), at the 88 fathom level west, the ground is favourable for progress.

EAST WHEAL TOLOUS.—March 11: The lode in the 34 end, east of John's shaft. is 20 in. wide, consisting of peach, spar, and mandle. The lode in the 34 end, west of segmen-shaft, is 10 in. wide, composed of spar and prian. The ground in the 34 cross-cut south is hard. The branch in the end at the adit level, south of new shaft, is 8 in. wide with spar and stones of ore. The ground in the cross-cut, south of new shaft, is mode.

is 20 in, wide, consisting of peach, spar, and mandie. The lode in the 34 end, west of engine-shaft, is 10 in, wide, composed of spar and prian. The ground in the 34 cross-cut south is hard. The branch in the end at the adit level, south of new shaft, is 3 in, wide, with spar and stones of ore. The ground in the cross-cut, south of new shaft, is moderately easy.

GARREGI.—W. Sandoe, March 10: In the end going east from No. I stope the lode is 2 ft. wide, of a highly promising character, and which I am daily expecting will improve, as we are now within about 6 fms. to the north and south igde. The winze sinking below the 20 is down nearly 6 fms., in the bottom of which the lode is rather split up into branches, so I have put the men to drive west towards where we had good ore in the back of the 20, and here the lode has improved, and is now in places 6 in. wide, of solid ore, and showing a very good appearance. Above this level, whenever we had ore it was generally lumps in soft clay, &c., but it is now very hard, and looks as though we were on the top of a good run of ore, and which I trust will be the case.

GREAT BRIGAN.—T. Trelease, G. Oates, March 9: The lode in the 61, driving east of engine-shaft, has again improved; it is now le in. wide, worth 51, per fathem; the lode at this level, driving west of said shaft, is small and unproductive. The lode in the 49, east of said shaft, is 3 feet wide, containing a little ore, but not to value. The lode in the 32, driving east of the above shaft, is improved, being now 2 feet wide, worth 54, per fm. The water is now drained to the 42 at Trelease's shaft, and we have resumed the driving east of the same; the lode in the end is 1f. wide, with stones of copper ore. We have suspended the sinking of the same below the 32, east of the above shaft, for the present, until the 42 is up to this point. Highburrow shaft is again drained, and we have resumed the sinking of the same below the 32, east of the short shaft, is 2 feet wide, producing a little ore, but not to value.

and is gradinally improving both in size and indications; so much so as to give me every confidence that we shall ultimately discover Dumbell's run of ore at this depth. We have in this level successfully accomplished improved ventilation, and can now press forward the driving with a full force of men. In the 200 end the lode is not so good, for the whole height, as reported in my last; but as the bottom of the level is equally rich, it appears, as before represented, that we are driving over the top of a fresh run of ore, beginning at this level. The 190 end has during the month improved mainly for jack, and is worth 8 tons per fm. and 1 of lead. All the other north ends and stopes are without change.—South: We have been all the month aiming hard to hole the rise and winze from the 190 to the 200. I fully hoped to have accomplished this by Saturday night, but did not succeed; no doubt we shall be able to accomplish the during this week, and we expect thereby to secure the means of increasing the returns. In the 190 end the lode is 8 ft. wide, 2 ft. of which carries copper, worth about 4 tons per fm. The 165 end, hitherto unproductive, has now come up to a large lode, and is nearly 4 feet wide, earrying strong blende, unixed with lead. The 145 end has also improved since my last report, and is now worth from 4 to 5 tons of copper ore per fathom; the winze sinking below this level, about 7 fms. from the end, is down 5 fms., and the lode is 6 feet wide, rich in ore, worth 8 tons of copper and 2 tons of lead per fm. The copper stopes in the levels above are without alteration to notice and the second of the lode in the 44 fm. level, west of said shaft, we have holed to the old men's workings, the bottom of which appears to be about this level; we have been into them about 5 fms. from where we holed, and find the workingschoked at this point, and have not yet cleared out the mud, to be able to give you the particulars of the size and character of the lode, but it is plain that the lode must have been productive for

10s. in 11.
GREAT SOUTH TOLGUS.—John Daw, March 11: In Lyle's shaft, sinking below

lode is specified with least, sheade, and expper. In the 53 west we are driving by the side of the lode. The lode in the 40, west of engine-shaft, is yielding some good bleinde. The bleinde pitches are re-set for another mouth at 18s, per ton; and the pitch on Peru lode at 10s. in 14.

GREAT SOUTH TOLGUS,—John Daw, March 11: In Lyle's shaft, sinking below the 140, the lode is 5 ft. wide, and it has become very foul with manule; it is not producing much tin at present. In the 140 east the lode is 1 ft. wide, producing 1 ton or or per fm. In the 125 east the lode is 7 ft. wide, producing stones of ore. In the 120 east the lode is 7 ft. wide, producing stones of ore. In the 121 east the lode is 1 ft. wide and the south part, the lode is 15 manufactured to 1 ft. wide on the field of the south part, the lode is 15 manufactured. Hampton, J. etchin, March 12: There is a little improvement in the ground in Hill Brothers shaft for sluking, being now 4½ fms. below the 63. On the tin lode we are opening out ground pretty fast for taking away. The shaft is down 16 fms. 3 ft. below surface, and we are now extending the level in the lode at this point. We intend to cut a pair, and sink the shaft to the 20, in its present course on the lode, and we shall erect a whim on it immediately for drawing the stuff, 40 east pair and the study of the 10 east pair and the 10 eas

increasing, by which we anticipate the Red lode is not far off; this lode underlying from the end, and no certain data how much, is the cause of our disappointment in not having cut it ere this.

II ARWOOD—J. Race, March 9; Thereis no alteration to note anywhere in the mine since my least report. We are driving the cast end at the bottom of the limestone, consequently it is not so rich as it was when driven at a higher random, but that ground above is yet to stupe, and there is no doubt it is as rich as ever; it is looking well in the roof of our drift at present. We have 6 tons more ore dressed.

II AWKMOOR—J. Richards, March 10: The lode in the rise in the 50 cast is 2½ ft. wide, composed of quartz, capel, mudle, and good stones of yellow copper ore. In the 30 west the cross-cut north is driving in hard capel.—West Hawkmoor: In Venner's winze, sinking below the adit level, on No. 3 lode, there is not much done, the men having been engaged in cutting winze-plat previous to sinking. The stopes in the back of this level are turning out some very good work for tin ore.

III NGSTON DOWN CONSOLS.—T. Richards, March 11: The 110 west is without change. The stope in the back of this level age worth on an average 201, per fm. The 50 west ts worth about 101, per fm. The stopes in the back of this level are worth on an average 201, per fm. Nothing new at any other point.

KELLY BRAY.—S. James, March 7: The lode in the stopes in the bottom of this level are worth on an average 401, per fm. Nothing new at any other point.

KELLY BRAY—S. James, March 7: The lode in the stopes in beak of this fwel with the lode is embedded is of a highly mineralized character. The lode in the stopes in beak of the 3ce as is 1½ ft. wide, producing atoms of ore and a quantity of mandic; the ground in which the lode is embedded is of a highly mineralized character. The lode in the stopes in back of the Same Junes and the level are attill looking well, producing about the same quantity of water isauing from the lode, showing indications that the

important results.

MAUDLIN.—J. Tregay: The sumpmen are getting on pretty well in sinking the engine-shaft below the 57; in this level, east and west ends, there is no change since last reported. The 20 cross-cut is letting out more water. In the west mine, now shaft, the ground continues favourable for progress.

MERLLYN.—Wm. Sandoe, March 10: In the 20, south of shaft, the lode produces a mixture of lead ore, and has a promising appearance. In the 20, north of shaft, operations are for the present suspended, in consequence of our having in the stope come in context with a call-the context.

tions are for the present suspended, in consequence of our having in the stope come in contact with an old shaft, old ground, &c., which suddenly gave way, and ran up to the surface; we then began to draw out the water from the shaft, which was done in a short time, repaired some little to the levels, &c., and have now the bottom in full operation; the ends driving north and south are each producing a good mixture of ore, and will no doubt improve. I have also put six men to sink a winze in the bottom of the north end, where we have a strong lode, and a good mixture of cre. We sampled to-day 3 tons of ore for sale on Thursday next.

MICHELL—W. Sandoe, March 10. We have had a let bere for three days, owing to the misfortune of breaking the windbore; this, however, has again been set all right. The water is in fork, and the sinking progressing favourably. The engine works exceedingly well.

The water is in fork, and the sloking progressing favourably. The engine works exceedingly well.

MINERA UNION.—W. T. Harris, March 12: The lode in the 100 yard level south is very promising, and producing good atones of lead. The 809 yard level north progresses satisfactorily; the lode is easy for driving, and yleiding a little lead. The stope in back of this level is worth 15 cwts. of lead per fm. The lode in the winze sinking in bottom of the 60 yard level is of a promising character, but poor for lead at present. At Williams's shaft the lode is 1½ ft. wide, with occasional stones of lead. At Flue shaft the 30 yard level south is worth 10 cwts. of lead per fm.; the stope in back of this level is worth 15 cwts. of lead per fm.; the pitch in back of this level is worth 15 cwts. of lead per fm. The other pitches are producing lead of the same quality as for some time past. To-day we sold 10 tons of lead.

MOLLAND.—Thos. Bennetts, March 11: The lode in the 52 east is very large, being 6 ft. wide, what we are carrying, and no north wall to be seen; it is composed principally of quartz, white iron, mundic, with spots of ore occasionally. The lode in the winze sinking below the 42 east is very large and hard, being the width of the winze, and no north wall to be seen; its composition is much like it is in the end below, producing stones of ore occasionally; our progress in sinking here is slow. The stopes in bottom of the 32 east are looking much the same as last week, producing 1½ ton of ore per fm. The ground in the salt is that is rather stiff for sinking in, having mot with the rock sooner than I expected.

The ground in the acit shaft is rather stiff for sinking in, having met with the rock account than I expected.

NANTY.—March 10: The lode at the roadway level, north of boundary, is large, and looks promising; the part we are cutting will yield 15 cwts. of lead ore per fm.

The lode at the 10, north of boundary, is very large, and yields saving work. The lode

this end is 3 feet wide, producing a little tin, but not of much value. The tin lode in the 10 fm. level, east and west of Lud's east shaft, is 18 inches wide, producing saving work for tin. We have commenced clearing up Sieggan's shaft, below the 40 fm. level, and shall follow down the water as fast as drained. We are also clearing lilliver shaft below the shallow addit, by six men, which we find still filled with rubbish; this shaft spist on the boundary between us and Wheal Rese.

GREAT RETALLACK.—W. H. Reynolds, March 10: In the 60 cross-cut north the lode is spotted with lead, blende, and copper. In the 53 west we are driving by the side of the lode. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode in the 40, west of engine-shaft, is yielding some good blende. The lode is about 4 feet wide, and yields good saving work. The three stopes over that level will produce an an average 10 cwts. of icad ore per fathom. The dressing, &c., is carried on regularity.

NETHER HEARTH.—W. Vipond, March 7: The level in east cross veia continue that the most of the lode. Shaft of the lode is about 4 feet wide, and yields good saving work. The three stopes over that level will produce an an average 10 cwts. of icad ore per fathom. The dressing, &c., is carried on regularity.

arried on regularly.

NETHER HEARTH.—W. Vipond, March 7: The level in east cross vein continues and the same for driving as proviously reported. I expect to let the men a bargain

the dray and lawer, coins morth a remondary assess as were a server, per latinous. The loths at Provent they present appearance in the end we may expect something good here shortly. The lock is about 4 feet wide, and yields good saving work. The three stopes over this rever will predict on an average 10 cwts. of lead of one per latinous. The dressing, &c., is rever will predict on an average 10 cwts. of lead or oper latinous. The dressing, &c., is served will predict on the lead of the lead of

to any, that we consider the mine to be a good specuration, and if vigorously prosecuted, that good results are likely to ensue. The ground throughout the mine is very easy for exploring.

NOETH ROSKEAR.—Wm. Rowe, March 11: The 194 is driven west of the cross-course? fathoms, and lode small and poor; this end is 50 fathoms behind the ore gone down in the bottom of the 184. The 184 is driven west of Pearse's shaft 5½ fathoms; lode 2½ ft. wide, producing 6 tons of copper ore, worth 504, per fathom. 10 fathoms cast of Pearse's shaft a winze is sunk 7 fathoms below this level; for the first 5 mihoms they had a good course of ore in the winze, but it is now poor. No. 1 stope, in back of the 184, is worth 304, per fathom. No. 2 stope, in back of the 184 fm, level, 120 fathoms east of Pearse's shaft; I sunk 7 fathoms, producing for the length of winze (9 ft.) 25½ tons of ore, value 304, per fathom. The 174 winze, west of Pearse's shaft; I sunk 7 fathoms, producing for the length of winze (9 ft.) 25½ tons of ore, value 304, per fathom. The 174 end west is poor. The 164, 162, and 130, are all driven west about 100 fathoms, and all poor ends. Respecting the fature prospects of the mine, I cannot see how they can possibly work to make any profit unless they put up an engine on the western part of the mine, and looking at the leight of ground they have still to the west, and taking into consideration that after the 194 is driven under the ore gone down in the bottom of the 184 it will take years to get in a deeper level, therefore I think there cannot be two different opinions about it.

NORTH TRELAWNY.—H. Hodge, H. Harvey, March 12: The cross-cout is extended west of the shaft, is I foot wide, and unproductive. The 65 fathom tovel cross-ceut is extended west of the durry lode unproductive. The 65 fathom tovel cross-ceut is extended west of the wide, and unproductive. The 65 fathom tovel cross-ceut is extended west of the quarry lode unproductive. The 65 fathom tovel cross-ceut is extended west of the quarry lode unproduct

west of the shaft 22½ fins. towards the lode, and we expect to cut it in the course of a few days. The lode in the 76, south of the shaft, is I foot wide, and unproductive. The 65 fathom level cross-cut is extended west of the quarry lode 19½ fathoms towards the western lode.

NORTH WHEAL LUDCOTT.—W. Hancock, March 12: We have now brought up an open cutting from the river about 40 west. In the first 12 fathoms we met with a lode 1½ foot wide, composed of gossan, mundle, spar, and flookan—a very promising lode. About 25 fathoms further west another large lode has been met with, denominated No. 2 lode, composed of gossan, beautiful flookan, mundle, capel, and I may support of the control o

BHOSWYDOL AND BACHEIDDON.—E. Davies, March 12: The lift of pumps has been dropped down to the 43. The foundry is behindhand with some small things, which

we hope to receive by the carrier to-day. There is 150 ft. depth of water in the shaft, but as we have the pumps in position, we have no occasion to draw any more water till the engine begins to pump, which I hope will be before the end of this week.

REDMOOR.—T. Taylor, March 10: The lode in the 30 west is 2½ ft. wide, worth 81. Per fathom; good ground for driving. The 30 cross-out north is a little easier. No alteration in the tribute pitches since my last.

ROARING WATEE.—Capt. Thomas, March 9: The Orchard lode fully maintains its character, and I think it will not be long before we require a crusher. Grady's lode is one of the finest looking lodes that can be seen for producing large quantities of ore; the gossan in this lode contains a fair portion of native copper, and no doubt gold. Hyou think proper I will send you a fair sample of the lode, that you may have tested for copper, manganese, silver, and gold; this may be a triding expense to have done, but my impression is all the above metals are componing parts of the low have nothing particular to report of importance during the past week.

ROSEWARINE CONSOLS.—T. Uren, year week.

ROSEWARINE UNITED.—E. Carthew, March 12: The new engine-shaft is sunk at the sungless of the sungless of

and the results of all our principal points of operation, our prospects were never so encouraging as at the present time.

SORTRIDGE CONSOLS.—R. Jackson, March 12: In the 50, west of Mayne's crosscut, on No. 2 south lode, the lode is 1 ft. wide, yielding good stones of ore. In William's rise, in back of the 50, west of Mayne's cross-cut, on No. 2 south lode, the lode is 1½ ft. wide, worth ½ ton of good ore per fm. In Doldge's cross-cut south in the 50, west of ventilating shaft, the ground continues easy for progress. In the 40, west of Stancombe's cross-cut, on the south part of the lode, the lode is 2 ft. wide, composed of spar, capel, mundle, and stones of ore. In the 40, west of John's cross-cut, on No. 2 south lode, the lode is 1 ft. wide, yielding good stones of ore. In Gibert's cross-cut north, in the 40, east of the eastern shaft, the ground is easy for progress. In the 30, west of the engine-shaft, the lode is 3 ft. wide, composed of spar, capel, mundle, and stones of ore. The pitches are looking much as usual.

SOUTH CARADON WHEAL HOOPER.—W. C. Cock, March 7: We have just cut into the civan in the 90 cross-cut north: I hope we shall find it more favourable for driving than the granite we have had for the last six months. I shall be able to say more about this in my next report.

about this in my next report.

SOUTH CARN BREA.—T. Glanville, March 11: In the 68 cross-cut, north of the new shaft, the new loade is 7 ff. w.de, worth 40!, per fm. for tin. In the stopes in the back of the 68 the lode is worth 30!, per fm. The other parts of the mine are without the first parts of the first

SOUTH CARN BREA.—T. Gianville, March 11: In the 68 cross-cut, north of the new shaft, the new lode is 7 ft. wde, worth 401, per fm. for tin. In the stopes in the back of the 68 the lode is worth 301, per im. The other parts of the mine are without alteration to report on.

SOUTH CRENVEIL.—E. Chegwin, March 10: In the 124, driving west of flat-rod shaft, the lode is 7 ft. wide, producing 2½ tons of ore, worth 111, per fm. In the 17s in back of the 124, againt the sump-wine, the lode is 3 ft. wide, producing 2 tons of ore, worth 104. 10s, per fm. In the 124, driving east of flat-rod shaft, the lode is 1½ ft. wide, producing ood stones of ore: the lode in this end has improved in the past week. In the 105, driving east of flat-rod shaft, the lode is 3 ft. wide, producing 1½ ton of ore, worth 10. 10s, per fm. In the 105, driving west of flat-rod shaft, the lode is 3 ft. wide, producing 1½ ton of ore, worth 61, per fm. Our tribute pitches are without change.

SOUTH DOLCOATH AND CARNANTHEN CONSOLS.—W. Roberts, March 10: The following tutwork bargains were set on Friday last:—A rise in the back of the 70, on the cross-course, west of the engine-shaft, by four men, at 51. 10s, per fm. A winze to sink under the 50, to communicate with the said rise, by four men, at 61. Per fm. The 12 fm. level to drive east on the canatre, by four men, at 51. 10s, are fm. A winze to sink under the 100, to emmunicate with the said rise, by four men, at 62. per fm. The 12 fm. level to drive east on the canatre, by four men, at 61. Per fm. The 12 fm. level to drive east on the canatre, by four men, at 61. 10s at price and producing good stones of ore.

ST. DAVID'S (60-D.)—Hugh B. Parry, March 10: Our progress in driving upon the Elizabeth lode this week is 2 feet 6 inches; it is composed at present of quartz, spotted with a little yellow copper ore, also small specks of silver-lead.—Bwichcoch Lode No. 2: This lode improves gradually; our progress in driving for the past week is 3 fcet 4 inches; the ground is hard, and rather wet for the pr

who spoke uncommonly high of this property, and stated we shall ere long have a dividend-paying mine. I can now see good tin ground for a great number of fathoms in length, and as no steam-power is required we shall be in a position to bring tin to the market with a little cost.

ST, JUST UNITED.—J. Carthew, March 11: Saturday last was our pay and setting day, and everything passed off well. We setton tribute to 86 men, and have tin ground discovered sufficient to employ 30 more. I think this is going abasd, and no mistake. We have set a plat to cut in the 40, at Oata's shaft, and intend, with as little delay as possible, to get this shaft down in the 62; when this is completed our returns of tin will be considerably increased. We have sakips drawing from the bottom of three shafts, and shall now have more men breaking tin. The mines are looking well.

TOLCARNE.—March 11: Field's Lode: The engine-hast nearly down to the 50. No alteration in the appearance of shaft or levels since last', report.—New North Lode: The 30 east is yielding 1 ton, and west 1½ ton of copper ore per fm. The 30 west is yielding 1 ton, and west 1½ ton of copper ore per fm. The 30 west is yielding 1 ton, and west 1½ ton of copper ore per fm. The 30 west is yielding 1 ton, and west 1½ ton to foopper ore per fm. The 30 west is yielding 1 ton, and west 1½ ton of copper ore per fm. The 30 west is yielding 1 ton, and west 1½ ton to copper ore per fm. The 30 west is yielding 1 ton, and west 1½ to 10 to copper ore per fm. The 30 west is yielding 1 ton, and west 1½ to 10 to copper ore per fm. The 30 west is yielding 1 ton, and the state of the state of

TRIMLEY HALL.—T. P. Thomas, March 12: We have to-day noted to the small, and we now intend cutting a plat, and after this is complete we shall be able to get the shaft down at good speed.

TRUMPET UNITED.—G. R. Odgers, March 7: The 48 to drive west, by six men, at 54. per fun.; lode 10 in. wide, producing a little tin; the ground has suttrely changed from what it was upward, hence we look upon this as a favourable feature. The 28 west, to four men, at 64. 10s, per fun.; lode 10 in. wide, yielding saving work for the 38 west, to four men, at 64. 10s, per fun.; lode 10 in. wide, yielding saving work for the and which is a highly promising lode. The 25 west, to four men, at 84. per fun.; lode small, but judging from the appearances of the 15, I think we shall speedly see an improvement. The 15 west, to two men, at 90. per fun; the lode in bottom of the end is 12 in. wide, yielding good work for tin, and worth 64. per fm. The stope above the 15 west, is not men, at 94. per fm.; lode worth 64. per fm. A winza below the 18 west, to four men, at 94. per fm.; lode worth from 104. to 124. per fm. The 20, east of falt-rod shaft, to four men, at 44. los. per fm.; lode split into two parts.

TYWARHAILE.—J. Hampton, J. Daw, T. Hampton, March 11: Gardiner's sumpmen will complete the pipes and launders this week, and commence driving the 100 cent mext week. The 90 east is looking quite as well as last reported, now worth about 204. per fm. The 80 east is looking quite as well as last reported, now worth about 204. per fm. The 80 east is looking quite as well as last reported, now worth about 204. per fm. The 30 east of James's, the lode is kindly, and a few futhoms driving will bring us under a shoot of ore gone down in the bottom of the 70. The 80, east of Haynes's, is more wet —shout-the same in value as last week. The 70, west of Haynes's, is more wet —shout-the same in value as last week. The 70, west of Haynes's, is more wet —shout-the same in value as last week. The 70, west of Haynes's, is more wet —shout-the same in v

sinking, and will commence in a day or two. It will take the sumpmen at James's shaft nearly a fortnight longer to complete their work before sinking here. No alteration in the tribute department. The water is in fork, and the machinery working well. VALE OF TOWY.—A. Waters, T. Harvey, March 9: The 124 atthout level is driven south of great cross-course 3 fms.; the lode is 6 feet wide, composed of carbonate of lime, blends, and copper ore, but not to value. In the 60, north of slide, the Derrick lode is 5 feet wide, composed of carbonate of lime and lead ore, of a promising character. In the 60, south of slide, the said lode is 2 feet wide, yielding clinkers of lead ore in soft ground—a good-looking lode. In the 50, north of slide, the lode is 2 feet wide, making ore up and down the end, and looking well for further improvement. In the 40 crosscut, to cut the said lode, the ground is hard, but we are near the lode. In the 20, driving south of Bonville's, the Derrick lode is 1 foot wide—good saving sluff for lead ore. In the adit, south of Nant, the lode is small at present, and ground rather hard. The ground in the back of the 100, south of Ciay's and Field's, is yielding blende in profitable quantities. We are now waiting for a vessel to ship a cargo of barytes. Tribute department as usual.

core up and down the end, and looking well for further improvement. In the 40 cross-cut, to cut the sail doe, the ground is lanch, but we are near the look. In the 20, driving, cut, to cut the sail, south of Nair, the look is small at presence as ving start for lead ore, the addit, south of Nair, the look is small at presence as ving start for lead ore, the addit, south of Nair, the look is small at presence as ving start for lead ore, the additional cut the additional cut the additional cut the sail of the properties of the pro

improved for progress since the meeting. There is no change in the 162 west, or No. 3 cross-cut. The ground in the adit level continues of the most favourable description for progress.

WEST WHEAL TREVELYAN.—J. D. Osborn, March 7: To-day in taking down the lode in the 58 west I find it has improved, now worth for ore 71, per fm. Two stopes in back of the said level, west of Charles's shaft, are worth for ore 51, per fm. Cath. A stope in bottom of the 48, west of Charles's shaft, are worth for ore 51, per fm. All operations are suspended at present on Pryor's lode. We hope to get the flat-rods to work in Charles's shaft in the course of next week, when I expect we shall shortly raise some good ore. WHEAL AGAR.—W. Roberts, March 11: In the 100, driving east of the cross-cut, the lode is 3 ft. wide; in the same level west the lode is 3 ft. wide, each end producing good work for tin, with occasional stones of copper ore. The 90 cross-cut south is progressing favourably. In the 90 west the lode is 1½ ft. wide, producing stones of ore. In the 50 west the lode is 3 ft. wide, producing stones of ore. In the 50 west the lode is a ft. wide, producing stones of ore. In the 50 west the lode is a ft. wide, consisting of spar, mundic, and good stones of copper ore. The lode in the engine-shaft, sinking below the 50, under the adit, is 3½ feet wide, consisting of spar, mundic, and copper ore, worth of the latter I ton per fm. The lode in Stanway's winze, sinking below the adit, west, is 3 ft. wide, composed principally of mundic and stones of copper ore.—Eaward Lode: The lode in Prout's rise and stope, in back of the 50 east, is 4 ft. wide, yelding 1 ton of copper ore per fathorn. We are pressing on the 30 cross-cut south, so far as the nature of the ground will admit. WHEAL CREBOR.—Capt. (Highd, March 10: The lode at Cock's shaft is 4 ft. wide, composed of capel, quartz, mundic, and copper ore, yielding 0 ton feopor ore per fathorn. We are pressing on the 30 cross-cut south, so far as the nature of the ground will admit, whi

in the process of the second process of the

east winze, below the 100, is worth 601, per fm. The lode in the stope, east from west winze, is worth 607, per fm. Alexander's lode, in the shaft, and 12 cast end, is without attention for the week, as the men have been engaged cutting plat at this level. The lode in the shift worth 504, per fm. The stopes above and holow the salit level as worth 504, per fm. The stopes above and holow the salit level as worth 504, per fm. The stopes above and holow the salit level as worth 504, per fathsom. The stopes above and holow the salit level as worth 504, per fathsom. The stopes above and holow the salit level as worth 504, per fathsom. The stopes are stoped and the salit level as worth 504, per fathsom. The stope and 104 the salit level as worth 504, per fathsom in the stope behind this end, to cut the main part of the lode. The lode in the 90, cast of this shaft, is worth 71, per fm.—Hologate's Shaft: The ground in the 65 eros-cut continues hard for driving, but the lode is looking very promising, and worth 104, per fm. Pryor's lode in the 54, east of cross-cut, is worth fm! 284, per fm.; and in this level, west of ditto, 125 per fm. The lode in the 43e, east of cross-cut, is worth 104, per fm.

The lode in the 44, east of cross-cut, is worth 77, per fathom; and in this level, west of ditto, 111, per fm. The ground in the 24 cross-cut is much the same for driving. We are looking well generally throughout the nine.

Wilkal NOHRIES—Wh. Bugelhole, J. Andrews, March 7: During the past week will be supplied to the salit level in making sildes to receive the salit level in the 104 key to the salit level in the salit level in making sildes to receive the time salit lev

FOREIGN MINES.

FOREIGN MINES.

ENGLISH AND CANADIAN.—P. M. Rogan, J. Sincock, Feb. 10: Kent's Shaft: The 30 west is advanced 4 fm. 1 ft., producing about 40 tons of 3 per cent. ore in the rough; in this end we passed two small branches of yellow ore in the back, about 4 in. wide each. The end, continuing the same as before, is re-set to six men, at the previous price of \$50 per fathors.—Panny Eliza, No. 2: We followed the branch of ore 2 fms. 2 ft. 3, in., and obtained about 1½ ton 40 per cent. ore when dressed; the end not looking quite so well, we have only set 1 fm. to six men, as 50 per fathors, an increase of \$20 per fathors.—Hise on Bed: The 20 is only advanced 1 fm. 1 ft., producing about 11 tons 4 per cent. ore in the rough; suspended for the present for want of auditained about 26 tons of 5½ per cent. ore in the rough; stoped by size men, at \$25 per fathors.—In preparing to open out ground to the west of the 20 we broke 2 men, at \$25 per fathors.

The 20 fm. level end weet is advanced 5 m. seven, at \$60 per fathors—re-set to drive by found 15 tons of 55 per fathors.—The 20 fm. level each of 2 ft. of them. The 20 fm. level each set is advanced 2 fm. 5 ft., producing a soul 25 tons of 3 to 4 per cent. ore in the rough; it continues the same as last reported, and is re-set to four men, at \$60 per fathors, the same price as before. The saw-mill has been retarded by heavy fails of snow, but we expect it to be finished by the end of the month (weather permitting), as the frame is up and machinery well forward. We have been visited by Dr. Hall, one of our Quebec directors, and Dr. Charles T. Jackson, State assayer and geologist, of Boston, U.S.

CAPULA.—Jan. 18: The batches of good ore I have occasionally mentioned as having been broken in the mine are nearly altogether saving work; so soon as our arrangements for cleaning the ore are perfected 1 shall be able to be more explicit on this head. Since my last 1 have suspended the level of La Esperanza (temporarily) for the purpose of continuing the cross-cut south to intersec

hacienda work. I am very anxious to pash this forward, from my conviction of being able to make handsome returns by the time it is finished.

Pachuca.—Captain Paull, Jan. 23: In consequence of the lode in San Juan shaft having taken a greater undurile below San Jorge level, and in order to sink the shaft with the same inclination all the way, it was necessary to leave the lode standing to the south, by which means we have been able to sink 1½ vara weekly; the ends and north side of the shaft are hard, and the south only requires timber. In opening the ground for the plat in the next level we shall cut through the lode, which I trust we shall find productive; before we left the lode stand we found several stones, with spots of blue ore, and a little native silver. The lode in San Jorge level east is still composed of quartz, with a great deal of jabones and bronce, and letting out a great deal of water. We have resumed the driving of San Jorge level west, on a branch running north of west, in the hopes of cutting the lode on which Las Animas winze is sunk, and letting down the water. In the cross-cut north of San Juan level we cut a lode about 1 vara wide, with a little quartz and jabones; considering it to be too small for the Viscaina, I continued the cross-cut any labores; considering it to be too small for the viscaina, I continued the cross-cut 12 varas further, and meeting with a small branch of spar only, I put the men yeaterday to drive east on the lode. We have driven many varas further east in San Juan level than where the junction appears at surface, and have met with several lodes from the south-west, which have only disordered the other lode. It is my opinion that so many lodes coming together at one place with different angles get very much disordered, and hope further in the bill to find them more estiled; this is also the opinion of many English and Mexicans. I have in consequence put some men to clear up an old shaft at the top of the hill, about 80 varas east of the cross-cut, to ascertain the in a wall close to the old shaft, I should consider the lode to be very large. According to the directors' request, I will reasons the driving of the add isved, as we have not sufficient miners' tools to carry on all the levels. I thought it better to suspend the additive then either of the others, until we receive the picks, &c., from Vera Cruz. In the cross-cut at San Luis the ground is still very hard; they have only driven about

2½ varas since my last.

EAST KONGSBERG.—D. T. Macdonald, Feb. 20: South Sundse: The vein continues to give a little native silver in the stopes Nos. 4 and 5; the other points are at present unproductive.—North Sundse: The two stopes Nos. 4 and 5 are giving a little silver occasionally.—South Ramsrad: In the stopes 3 and 4, and in the faitort, the vein is showing traces of native silver. The forebreast of the feltort is now driven under the stope No. 3, and into the fahlbaand.—North Ramsrad: The feltort is now driven under the the fablbaand, and the vein is, consequently, getting daily more mineralised. Hitherto we have not discovered any native silver among the sulphurets.—Pukverk: During the week 00 tonder main from Neues Gluck were stamped, which yielded 6 cas. of silver by vanning, and 1½ centure silg. Kongsberg annual fair being hold this week, the dressing of the sligs was hindered by the absence of the dressers; the stamps were, however, kept going all the week.

LONDON GENERAL OMNIBUS COMPANY,—The traffic receipts for the reck ending March 8 was 13,4331, 13e, 9d.

week ending March 8 was 13,4331, 18c. 9d.

HOLLOWAY'S PILLS.—THE LIVER, THE STOMACH, AND THEIR AILMENTS.—Alternations of temperature, muggy weather, a troubled mind, sedentary habits, excesses of the table, and a gay, reckiess mode of life, sxert the most deleterious
influence over the liver and stomach. When once these organs are fairly out of order
great inroads are quickly made on the general state of the health; the constitution
which has been deprived of the proper functions of two of its noblest organs soon gives
way, and diseases quickly follow, when, if neglected, the worst consequences will inevitably result. If a course of Holloway's celebrated pills be persevered in, all will be
well again, as they are the finest and noblest correctives of the blood ever known, and
are a certain cure for all disorders of the liver and stomach.

MINERS' ASSOCIATION OF CORNWALL AND DEVON.

MINERS' ASSOCIATION OF CORNWALL AND DEVON.

A meeting of the Miners' Association of Cornwall and Devon, which had been called by the President, Mr. J. F. Basset, of Tchidy, was held in the Town Hall, Camborne, for the purpose of taking into consideration the best means of improving the funds, and of receiving suggestions for the carrying on of the association in a more effectual manner. Mr. Basset occupied the chair, and the following were present:—Messrs. Charles Fox (the late President), F. Trevithick, R. H. Pike, T. Hutchinson, Walter Pike, Reginald T. Grylle, A. E. Pauli, R. Gunnack (Heiston), Capts. Tonkin (Dolcoath), Pearce (ditto), Wilkins (Basset and Grylls), Pope (Whoal Basset), W. Roberts (West Basset), Tredinnick (Great Work), Bryant, Garby (East Pool), and Richard Pearce and Charles Twite, of the Miners' Association. Letters were read from Mr. J. St. Aubyn, M.P., Mr. R. Hunt. F.R. S., Rev. Saitron Rogers, Dr. George Smith, Mr. Thomas Garland, Mr. John Bule, Capts. Charles Thomas, Teague, and others, explaining why they had been prevented from attendig the meeting, and expressing their lively interest in the welfare of the association.

The Charleman explained that the meeting had been called with the view of endeavouring to Increase the fonds of the association, which, as was frequently the case with similar institutions on their first establishment, were in a rather low position, and not similar institutions on their first establishment, were in a rather low position, and out at all commensurate with the importance of the objects sought to be attained. He hoped at all commensurate with the importance of the objects sought to be attained. He hoped at all commensurate with the importance of the objects sought to be attained. He hoped that the would contribute liberally towards piacling the masociation in a more flourishing pecuniary position, and of thus increasing its efficiency and usefulness.

Capt. Torakin next addressed the meeting at some length on the subject of the education that was most sui

aring the lessons given by the association.

The Tezasurer stated that several of the mines have recently subscribed liberally the association, and it was mentioned that the very handsome donation of 501, had een received from Mr. Enys towards its funds.

A vote of thanks to the Chairman terminated the meeting.

A New Copper Company.—Mr. Francis Pryor, at the Ticketing held at Redruth, on Thursday, said he appeared there on behalf of the Penclawdd Copper Company, to give notice of their intention of purchasing copper ores at the Cornish Ticketing, on the 26th inst.; and on their behalf he was quite prepared in every respect to comply with the rules of the Ticketing. Mr. Pryor said he thought he might as well add that the principal proprietor of the new company was the largest holder in the firm of Stock and Co., the lead smelters. Mr. Pryor's notice was received without the slightest coposition.

New Patent Blasting Powder.—We have seen some most satisfactory reports upon this powder. The absence of smoke, or nearly so, is a most important consideration in mining. This, without the important saving in cost, would be a great boon to the hard-working miner, and go far in establishing its general use. In every instance where trial has been made its success appears complete.

MANUFACTURE OF IRON AND STEEL.—Messrs. Wilson, of Parliamentstreet, and Picard, of Lyons, have provisionally specified an invention, the
object of which is to run molten iron or steel directly from a converting
vessel, mounted on trunnions (or otherwise capable of rotating motion), in
which it has been produced, into moulds, or into receivers placed over these
moulds. The form of the receivers is such as will admit of the metal entering the moulds under a very slight pressure, and is so arranged as to
facilitate the removal of the scoria floating on the surface of the metal.
For the obtaining of a large casting by this system, they pour into one
mould, or into a receiver placed over it, the iron or steel produced in several converting vessels by means of conveying gutters, which gutters are
in communication with the converting vessels. Sometimes they make the
converting vessel portable, and remove several to the mould, taking care MANUFACTURE OF IRON AND STEEL .- Messrs. Wilson, of Parliament converting vessel portable, and remove several to the mould, taking care that the pouring of one is commenced before that of the preceding finishes
By a third method the mould is made upon a carriage, which runs on railway in front of the converting vessels, a gutter above enabling the pour-ing to be made continuous.

MANUFACTURE OF IRON AND STEEL .- An invention which relates to ball, mill, and puddling furnaces employed in the manufacture of iron and steel has been provisionally specified for Mr. Thos. Wright, of Coldbrook Ironworks, New Brunswick. The improvements consist in constructing steel has been provisionally specified for Mr. Thos. Wright, of Coldbrook Ironworks, New Brunswick. The improvements consist in constructing or building such furnaces in pairs, or double, with a stove or chamber formed in the neck thereof to receive the metal preparatory to its being passed forward into the body of the furnace, and in applying a blast of atmospheric air to such furnaces which may be either hot or cold, as required, whereby he obtains a more uniform heat, producing a better quality of the manufactured metal, with a larger yield also, effecting a saving in fuel and a diminution of manual labour.

COAL-TAR COLOURS.—In printing and dyeing with aniline and analogous coal-tar dyes, Mr. Alex. Schultz proposes to employ as a mordant arsenious acid, or a compound thereof, and this he uses in combination with alumina. In printing he prefers to mix together arsenite of soda, acctate of alumina, and the dye then to print the fabric with this compound, and afterwards to steam it; the several materials may, however, be applied separately. In dyeing, the fabric is first submitted to the arsenite of soda and acctate of alumina, and then to the dye. Salts of antimony or tin may be substituted for those of arsenic, and acctates of zinc and magnesia may be used instead of that of alumina, but the result is not equal.

On THE BURNLEY COAL FIELD.—At the Manchester Literary and Philosophical Society, Mr. T. T. Wilkinson, F.R.A.S., said that, in the paper upon this subject prepared by Mr. Joseph Whitaker, of Burnley, and himself, and read before the Geological Section of the British Association, at Manchester, they gave a sketch of the principal mines in this district, but they purposely omitted all mention of those whose thickness did not exceed 1 for. These are however one or two of these thinness. district, but they purposely omitted all mention of those whose thickness did not exceed 1 foot. There are, however, one or two of these thinnes had not exceed 1 foot. mines which may hereafter become worthy of notice, and hence he offered the present note as an addition to Mr. Hull's valuable synopsis in pp. 133-4 of his "Coal Fields of Great Britain":—

SECTION OF STRATA NEAR WORSTHORNE, BURNLEY	Feet,
Strata composed principally of blue clay, followed by light metals	102
1.—Coal, the "China Bed"	2
Strata, consisting chiefly of grey rag and metal	39
2Coal, the bed not named, and overlaid by about 3 inches of Cannel	
Strata, composed mainly of dark rag and mettle seating	73
3Coal, the "Danby Bed"	126
Strate, consisting of rag, light blue rock, metals, and black shales	
4 Conl, the Arrey, or Habergham Mine	434

The bed (2) is the one which has been hitherto omitted; and, if of no eful for co-ordination and identification other value at present, it may be useful for with the scams of coal in other localities.

IN THE DESULPHURATION OF IRON IN PUDDLING.—The inferior qua-of bar-iron obtained from the puddling of pig-iron reduced from iror rich in sulphur, or even from good ores when reduced with coal con-ing much pyrites, is well known to ironmasters, and many methods been devised for the desulphuration of this iron in the puddling process ing the best of these is the addition of binoxide of manganese; still this is light Among the best of these is the addition of binoxide of manganese; still this is liable to objection as it is intustible, and thus provents its becoming thoroughly incorporated with the iron; moreover, commercial oxide of manganese often contains impurities which possibly may be taken up by iron in the puddling process, and influence unfavourably the quality of bar-iron produced. This subject has recently been studied by Prof. Robert Richter, of Leoben (Austria). Richter calls to mind the powerfully oxidising effect of litharge (oxide of isad), and its use to promote oxidation in many metallurgical processes. On experiment he finds that litharge will not only remove subjutur in the puddling process, but, what is equally important, it also oxidises the phosphorus contained in the iron, thus affording a most simple means of correcting two sources of the greatest annoyance to the ironmaster. The experiments were made at the forges of Count Donnersmark, at Frantschach, near Wolfsberg, in Cariothia, with pic-tron which contained so much sulphur that it was impossible to many then are the problem of the process, but, what is equally importantly means of dises the phosphorus contained in the iron, thus affording a most simple means of correcting two sources of the greatest annoyance to the ironmaster. The experiments were made at the forges of Count Donnersmark, at Frantschach, near Wolfeberg, in Carinthia, with pigi-iron which contained so much sulphur that it was impossible to make it into puddied bar. The process of pudding was undertaken in two double pudding-furnaces arranged for burning wood. Each furnace was charged with 7 cwt. of this iron. To one of the furnaces there was added 3 lies, of sulphide of iron and ½ lb. of phosphide of iron, in order to still further deteriorate the quality of the product. After complete fusion, 3 lbs. of litharge was added to the furnace in which the sulphide and phosphide of iron had been placed, and on thoroughly mixing this with the charge, the iron commenced to boil inely—the litharge being deoxidised by the carbon. The reduced lead was, immediately re-exidised by the atmosphere, and by subsequent reduction and re-oxidation it again and grain exercised its oxidising influence on the harmful impurities contained in the iron. There was soon formed an easily fastile sing contained in the iron, while at the same time the exides thus formed united with the sing. After an hour and a half from the time of charging, the iron was made into balls, these were shingled, and without difficulty rolled that populated bar. In the other furnace, in which the iron was puddled in the sunal manner, it was two and a half hour before the puddled balls could be taken out of the furnace, and, not withstanding the greatest care was exercised, these crumbled to plees when struck with the humar, and rolling into her was not to be thought of. Besides this, the iose in weight when the litharge was employed was but 11 per cent, while in pudding this iron by the ordinal could be a seen of the furnace.

process the loss was 18 per cent. The puddied-har obtained from puddling with arge proved neither hot or cold short, and was of sufficiently good quality to be d into iron for scythes. A repetition of the experiments gave a confirmation of results. Richeter adds that in some instances the use of metallic lead may, per, be preferable to litharge.

- With this week's Journal a SUPPLEMENTAL SHEET is given, in which With this week's Journal a SUPPLEMENTAL SHEET is given, in which appears Papers on Mines and Minerals of America—Sandstone Copper Mines; Mines and Mining in Mexico; Processes of Mining in South America; Mining in California—Annual Review; Quicksilver; Coal and Iron in France; Mineral Oil as Fuel; Literary Notices; Machinery for Ventilating Mines; Rope Wheels, Cages, and Tanks Machinery for Ventilating Mines; Rope Wheels, Cages, and Tanks of Mines; Tube Proceedors of Multitubular Boilers; Treatment of Lynn, Ritaminous Coments Gunpowder: Alumina; Manufacture of Iron; Bitaminous Cement; Gunpowder; New Water-Pressure Engine; Solid-drawn Iron and Steel Tubes; The Tin Trade; Prices of Materials.
- The 1th 1rade; Frices of Materials.

 With the Journal of Feb. 28 we gave a Supplemental Sheet, which contains—Processes of Mining in South America; Remarks on the Edmund's Main Colliery Explosion (paper read before the Manchester Geological Society, and discussion thereon); the Coal Mine Inspection Act and its Working—the Government Inspectors' Difficulties; the Inventors' Institute—Report of Inaugural Meeting; Rope Wheels for Mines; Miners' Association of Corawall and Devon; the Carbonians Papers of Washes of Washes and Littlienian of Washes Penders in the for sines; indees Association of Cornwall and Devon; the Carbonierous Rocks of Westmorland; Utilisation of Waste Products in the Manufacture of Iron, New Gun Metal; Ward's Signal Telegraph; Manufacture of Iron, New Gun Metal; Ward's Signal Telegraph; Purification of Coal Gas; Rolling Wire and other Rods; Texture of Copper; St. Just Consols Mining Company prospectus (illustrated); Foreign Mining and Metallurgy; Prevention of Colliery Accidents (illustrated), by Mr. James Rae; Ironworks in America, &c.

The Mining Market; Prices of Metals, Gres, &c.

METAL MARKET-LONDON, March 13, 1863. | Copper | C

Bars, Welsh, in London. Ditto, to arrive
Nail rods, Stafford. in London
Bars ditto
Hoops ditto In sheets 23 5 0- -English, blocks ... 119 0 0 —
Ditto, Bars (in barrels) ... 120 0 0 —
Ditto, Refined ... 124 0 0 —
Banca ... 124 0 0 —
Straits ... 121 0 0 -125 0 0 TIN-PLATES.*

IC Charcoal, 1st qua, p. bx. 1 8 9 - 1 8

IX Ditto 1st quality , 1 14 0 - 1 14

IC Ditto 2st quality , 1 10 6 - 1 12

IC Coke , 1 3 0 - 1 2

IC Coke , 1 3 0 - 1 10

Canada plates ..., ton 12 19 0 - 13

In London; 30s. less at the works. To arrive
Pig, No. 1, in Clyde...
Ditto, f.o. b. in Tees ...

English Pig 20 17 6-23 0 0
Ditto sheet 21 10 0-Ditto red lend 21 10 0-21 15 0
Ditto white 26 0 0-27 0 0
Ditto white 23 15 0-24 0 0
Spanish 20 0 0-20 15 0

* At the works, is, to 1s, 6d, per box less. LEAD.

REMARKS.—There is little or no change to report in the position of etals generally. The public holidays have somewhat interfered with

so that there is rather less doing, but prices remain steady COPER.—English manufactured in fair demand, at full prices; seilers being full of orders, will now only accept contracts for distant deliveries. Cake, tile, and ingot very firmly held, at fixed rates. Foreign in rather less demand. Sellers of Burra Burra at 941. 10s. to 951.; Kapunda, 961.; Chili, 831.; Spanish, 861. to 871.
YELLOW METAL in good ordinary request. Actual selling price about 7½d. to 7½d. per lb. for braziery sheets, and 8½d. for sheathing.

IRON.—Railway bars rather dull of sale, at 54. 10s. at the works; merchant here quist at 54. 10s. in Wales, and 62. 5s. delivered f.o.b. in London the sale of the sale of

IRON.—Railway bars rather dull of sale, at 5l. 10s. at the works; merchant bars quiet, at 5l. 10s. in Wales, and 6l. 5s. delivered f.o.b. in London. Staffordshire descriptions are steadily demanded, and full prices adhered to for first qualities. Swedish bars remain without alteration in price. Scotch pigs have declined to 53s. 3d., mixed numbers.

Spelter.—This market is a little casier. Buyers for cash can now get on at 18l. pretty freely for spot parcels. For arrival, May, 18l. 7s. 6d.; April, 18l. 5s.

Zinc in fair request, at 23l.

Lead.—English pig, ordinary soft quality, very dull, and price declined to 20l. 17s. 6d. WB is not in much demand, but, on account of its being very scarce, commands 23l. Spanish pig, 20l. to 20l. 5s.

Tin.—English in rather better demand; sellers unable, however, to obtain full prices. Foreign has still rather an upward tendency. Straits, 121l. to 123l., three months; Banca, 124l. to 125l., three months.

THE TIN TRADE.-Mr. N. Breebaart writes that advices dated Jan. 28 have been received at Rotterdam from Batavia. About 2000 peculs of Billiton tin for delivery end of March have been contracted for Japan, at 80 florins per pecul. According to official returns, Banca produced, in 1862, only two-thirds of that in 1861, in consequence of want of rain to wash the ore. The yield was only about 58,000 peculs in 1862, against 86,594 peculs in 1861.

NEW YORK, FEB. 27 .- Prices of all descriptions of merchandise have

New York, Feb. 27.—Prices of all descriptions of merchandise have further advanced, but they remain still out of proportion to the rise in gold and foreign exchange, and on that account are still bought for investment. There is a great deal of unemployed capital, and although it was feared at one time that the large requirements of the United States Treasury would enhance the rate of interest, there are no indications of any change in the money market visible. It has become more and more apparent that, under present circumstances, more paper currency of some kind or other is inevitable, and gold has gone up accordingly, with occasional fluctuations. It is queted to-day 1693 per cent.; exchange on London, 189 per cent. Demand notes are within a fraction of coln. The has been quoted for the first half of the month at 46 cents for Straits, when the advices from England occasioned a demand for speculation, and 9000 slabs have since been sold at form 47 to 51 cents. The stocks are now concentrated in comparatively few hands, and very little is offered for sale at to-day's quotation of 52 cents. Banca has been sold at 54½ c., and English at 47 c.; both kinds are held higher. We have had one importation of 5 tons English, and 800 slabs are expected from the Straits direct. We estimate the stocks in first hands at 26,000 slabs of Straits; 400 slabs of Banca; and 70 tons of English, equal to 2100 slabs. Total in Boston and Now York, 53,500 slabs. The advance in the London and Amsterdam markets has not remained without influence here, as it indicates that higher figures are likely to rule for the article abroad than for some years past. The demand from China and Japan threatens to absorb the greater part of the products of the Straits, and if the reported shipment of Banca tin from London to China is followed up, by no matter how small additional shipments, it cannot fail to affect prices seriously. Our quotations are to-day 15 per cent. below the cost of importation; and, independent of the question of exchance, we look

don to China is followed up, by no matter how small additional shipments, it cannot fall to affect prices seriously. Our quotations are to-day I per cent. below the cost of importation; and, independent of the question of exchance, we look for much higher rates. The stocks are being gradually reduced, without a prospect of additional supplies. Spatters.—During the last week about 400 tons of Silesian and Lehigh have changed hands on private terms, including 180 tons to arrive from Hamburg. We quote Silesian and Silesian, and there is no stock of foreign in first hands.

Copper.—Prices have gradually advanced, but are comparatively lower than the other metals, in view of the small stocks. The sales of the last two weeks amount to 1,500,000 lbs., at from 35½ c. to 38c, for Baltimore, and 38c, to 37c, for Lake. The supply of the laster kind is very limited, whist that of Baltimore is for the moment more liberal. The Baltimore Copper Company concluded during January to buy some ores to work up with their old stocks, and they have sold about 400,000 lbs. The deciline in England has had no effect here. The high rates of exchange have operated against importations of domestic copper even from Europe, although we think it not unlikely that some Lake may still be shipped to this market. In the meantime, about 120,000 lbs. have been cleared for Hamburg during the past month, and we believe another small lot of Minesota is being shipped.

LEAD.—There has been a good demand for manufacturers, mainly supplied from second hands, as importers could not offer their stocks at the prices paid. The sales of the last fortnight are about 1200 tons of foreign, at from 3½ c. to 5% c. We quote today 10c, for all kinds, and for gaiena, of which there is a scarcity, 10½ c. has been paid, and 10½ c. is asked. The importations of the month amount to 1600 tons, and we estimate the stocks of foreign at 8300 tons, of which 2000 tons are duty paid, and 6300 in bond.—Wittenerf a And Co.

NEW YORK, FEB. 25.—The coal market is well supplied with foreign, diprices tend downward; domestic is in liberal supply, and prices tend downward; econsumption thus far this winter has proved fully one-third less than last year, and se slock is ample; sales from yard at \$6 50 c. to \$8 per ton.

Boston, Feb. 23 .- Prices of Pictou and Sydney Coal continue quite

is steady and firm for pig-iron, with sales of Gartaberrie and other brands, No. 1, at \$40 to \$42. And American pig at \$38 to \$40 per ton, cash and four months. Bar and sheetiscons are firm, and continue to sustain full prices.

The early part of this week was devoted to holiday making and festivities, and business for some days was completely at a standstill. In the MINING SHARE MARKET, therefore, there is not so much to report upon in the way of change, though great excitement has existed, and still exists, mong the "bulls" and "bears" of North Roskear, and all sorts of rumours are in circulation as to the effects of such large speculative transactions on the account-day. Our readers will not accuse us of any great sympathy for the "bears." We have, upon several occasions, denounced the system, and the injurious effects of both "bulling" and "bearing" upon legitimate mining; and at the same time that we consider those who sell what they mining; and at the same time that we consider those who sell what they have not got, for the purpose of injuring the property of others, deserve all the punishment they get; the public are as often misled by, and suffer as much from, the operations of speculative "bulling." The "bear" may frighten the holders out of their property; but the "bull," by making high and unwarranted prices, creates a system by which the public eventually suffer, and unless both practices are checked, we shall have mining degographs into a system where the interests of the hough of despensed less are into a system where the interests of the bona fide shareholders are sed, the permanent interests of the mines neglected, the public deceived, and the agents may become degraded into the mere panderers to market operations. So far as North Roskear is concerned, our opinion of the mine, if properly worked, is well known. We were the first to call attention to the experiment at Pearce's shaft, and predicted its success, attention to the experiment at Pearce's shaft, and predicted its success, more than 12 months ago, and when shares were at 25L cach. We stated, also, at the time that the shaft was worked by flat-rods from Doctor's shaft, about 260 fathoms off, and it was always expected, if the discoveries were such as we anticipated, that, to save the risk of accidents which this long line of flat-rods endangered, an engine would be erected at Pearce's, as there is no doubt it ought to be, and would be, but for its probable interference with market operations. But, perhaps, the best way of putting the present state of affairs before our readers is to observe that "bearing" operations commenced a few weeks ago, when it was said that one of the most important points at Pearce's was not looking so well: and that as it most important points at Pearce's was not looking so well; and that, as it would take nearly two years to get up the 194 fm. level, the ore ground already discovered above it would be exhausted before that time, and a return to calls rendered necessary, unless a good call were made at once, to erect the necessary machinery at Pearce's shaft, and make the mine a good and permanent property. Upon these things such heavy "bearing" transactions took place that the "bulls" began buying largely at advanced rates all shares that offered on the market, until the price rose from 49 to 64; and as a further punishment to the "bears," it was understood at the meeting (which has since taken place) before setting day, that the sett meeting (which has since taken place), before settling-day, that the sett would be divided, and a high premium at once offered for the new shares. Our readers will, therefore, observe that the "battle" between the "bulls" and the there?" and the "bears" in this instance is a very pretty quarrel as it stands, and the prudent will look on until after the day of settlement. At the meeting the accounts showed a profit of 187t, for two months; and steam-stamps are to be erected. The western ground is to be worked as a new sett. Sheres leave off 59 to 61, including the new shares; but many dealers are cautious about having any further transactions till after the account, owing to the confusion created by the new shares. Wheal Seton shares have improved and leave off 570 to 500, the super prime or the restheater improved, and leave off 250 to 260; the sump-winze on the north caunter lode, we understand, is worth 17 tons of copper ore per fm.; the winze on Prideaux' lode, in the 140, is worth 6 tons per fm., and improving; the 140 east, 6 tons per fm.; the 140 west, 3 to 4 tons per fm. In about a month the north caunter lode will be cut in the 150. Copper Hill shares hate been in great depend in expectations of the transfer. have been in great demand, in consequence of our remarks of last week (the substance of which was officially communicated to us, that the shareholders might have the interesting nature and prospects of their property laid before them), and rose to 95, 100; but on Thursday, after opening at 99, they became flatter, owing, as we understand, to a report, freely circulated on the market, that the pursers were selling, a report which has knocked down the shares 10\(lambda\), but to which, we believe, we are fully justified in giving the strongest denial. The pursers hold nearly one-third of the mine, and, we believe, would not sell at present upon any consideration whatever, fully expecting as rich a course of ore as there was in East Bassat. In our last there was a fillent gray, in stating the winese of the mine, and, we believe, would not sell at present upon any consideration whatever, fully expecting as rich a course of ore as there was in East Basset. In our last there was a slight error in stating the winzes were 50 fms. apart; it should have been, that the ore ground in the 70 (not so deep as the 70 in East Basset), had now been proved for upwards of 50 fms. long. The winzes are 22 fms. apart; and the 70 end, which we reported last week worth 3 tons per fm., has now been holed to the winze, and the latter will be at once sunk into the bunch of ore. The end here is only now worth 1 ton, but being in the top of the bunch, it will vary, and is not of much importance. In Cross's winze, where the entire lode was worth 6 tons of rich ore last week, only half the lode is now being carried. Bryn Gwiog, 30 to 32. Calvadanack shares have been in demand, and leave off 9½ to 10½. Caradon Consols. 18 to 20; Cargoll, 45 to 47½; Clifford Amalgamated, 21 to 22. Cook's Kitchen, 26½ to 27½, and flat. Drake Walls, 2½ to 2½; East Basset, 80 to 85; East Carn Brea, 9 to 9½; East Chiverton, 5 to 5½; East Russell, 4½ to 5; Great Caradon, 1½ to 2½; Gonamena, 2½ to 2½; Grambler and St. Aubyn, 16 to 18; Great South Tolgus, 6½ to 6½; Great Wheal Vor, 7 to 7½; Great Wheal Fortune, 37 to 38; Hertodsfoot, 47 to 49; Ilogan Consols, 27s. 6d. to 30s.; Kelly Bray shares firm, at 1 to 1½; Long Rake, 17½ to 18½; Marke Valley, 8½ to 3; Merllyn, ½ to ½; North Basset, 4½ to 4½. Wheal Harriett shares have been rather firmer, and leave off 3½ to 3½. Wheal Harriett shares have been rather firmer, and leave off 3½ to 3½. Who off off one ducing stones of tin; the stope, east of winze, is worth 60L per fm.; the west stope, 60L per fm.; the adit end, 10L per fm.; the western winze, 25L per fm.; the cast stope, 30L per fm.; the western stope, 20L per fm. Wheal Kitty (St. Agnes), 4½ to 5; the 65 cross-cut, on the caunter lode, is worth 10L per fm.; the cast stope, 30L per fm.; the western stope, 20L per fm.; the 44 west, 10L per fm.; the rise, 15L p est, 112. per fathom.

Wheal Edward, 24 to 3; an important discovery has taken place in a

Wheal Edward, 2½ to 3; an important discovery has taken place in a cross-cut south at the 50, by the intersection of a south lode, which has been cut into 3 ft., and worth 30£ per fm. as far as seen. This lode gave good profits in Wheal Arthur. North Crofty, 4½ to 5; North Dolcoath, 2½ to 2½; North Downs, 2½ to 2½; Nanjiles, 7½ to 8½; Basset and Grylls, 27 to 28; East Grylls, 3½ to 4. Wheal Grenville shares have been firm, and in demand all the week, and leave off 5½ to 5½. East Grenville, 47s. to 49s.; the lode in the 55 cast, or bottom level, has improved to 1 ton 448. to 498.; the lode in the 55 east, or bottom level, has improved to 1 ton of copper ore per fm., in addition to tin. Pendeen, 5½ to 6½; Providence Mines, 42 to 44; Rosewarne United, ½ to 1; South Basset, 7 to 8; South Caradon, 410 to 420; South Cara Brea, 4½ to 4½; South Crofty, 28 to 30; South Frances, 90 to 95; South Tolgus, 65 to 67½; Stray Park, 927 to 30; Tisserfe, 10 to 80. 30; South Frances, 90 to 95 37 to 39; Tincroft, 19 to 20.

Prince of Wales shares have been in demand, at 8s. 6d. to 10s. 6d. Mr. Prince of Wales shares have been in demand, at 8s. 9d. to 10s. 9d. Ar., Jehn Hitchins writes from the mine, under date March 12: "In the bottom of the deep adit level the lode for some length was very productive, and large quantities of tin ore were returned."—"This is a strong and masterly lode, with excellent capels, all congenial for tin, and well deserving a spirited trial both in depth east and west; eastward towards the Dreke Walls Mine in particular, there is also a very large copper ore and Drake Walls Mine in particular; there is also a very large copper ore and mundic lode near the south boundary, which has returned a good deal of ore." Wheal Crebor shares have been in great demand, and advanced to 25s., 27s. 6d. The lode in the shaft is 4 ft. wide, worth 204. per fm., and improving in going down. The 72 east is also looking better. The tribute department is much the same, and in April from 70 to 80 tons of copper ore will be sampled. Wendron Consols, 13½ to 14½: West Basset, 13 to 14; West Caradon, 32 to 34; West Seton, 265 to 275; West Stray Park, 4 to 4½; West Tolgus, 66 to 68. Wheal Polmenr, 25 to 26; the north lode in the 15 cross-cut, at Eustice's shaft, is daily expected to be cut, and the next sale of ore will be 205 tons. The 30 will soon be under the 15, where the lode was worth 704. per fm. Wheal Basset, 72½ to 77½; Wheal Buller, 63 to 65; Wheal Grylls, 33 to 34; Wheal Ludcott, 7½ to 7½; Wheal Maragaret, 32½ to 35; Wheal Mary Ann, 16 to 17; Wheal Trelawny, 17 to 18; Wheal Union, 4½ to 5½; Wheal Uny, 6½ to 7½. Garreg, 2s. to 4s.; a good discovery has been made in a winze 6 fms. below the 20; the lode in places is 6 inches wide, of solid lead, and has the appearance of being the top of a good deposit of ore. East Caradon shares have been Drake Walls Mine in particular; there is also a very large copper ore and being the top of a good deposit of ore. East Caradon shares have been flat, and declined to 44, leaving off 44 to 45. The 50 east is worth 80*l*. per fm.; the 60 east 15*l*.; the 70 east 90*l*.; the 70 west 20*l*.; the new lode in the 70 east 15*l*.; the 70 west 8*l*. per fathom.

On the Stock Exchange a moderate amount of business has been transacted in Mining Shares during the week. The following quotations were officially recorded in British Mining Shares:—East Basset, 86, 79, 80;

Wheal Ludcott, $7\frac{1}{2}$, $7\frac{1}{4}$, $7\frac{1}{4}$; Wheal Seton, $247\frac{1}{2}$, 248; Wheal Union, $5\frac{1}{2}$; East Caradon, $45\frac{1}{2}$, $44\frac{2}{4}$; East Carn Brea, $9\frac{1}{4}$, $9\frac{1}{4}$; East Wheal Russell, $4\frac{1}{4}$, $4\frac{2}{4}$; Great Wheal Vor, $7\frac{1}{4}$; Great South Tolgus, $6\frac{1}{4}$; North Wheal Basset, $4\frac{3}{4}$, $4\frac{1}{4}$; Stray Park, $38\frac{1}{4}$; Tincroft, 20; Wheal Buller, 65. In Colonial Mining Shares the prices were:—Scottish Australian, $\frac{1}{4}$, $1,\frac{2}{4}$; Yuadanamutana, $4\frac{1}{4}$, $4,\frac{2}{4}$; Dun Mountain, $\frac{1}{4}$; Kapunda, $1\frac{1}{4}$. In Foreign Mining Shares the prices were:—United Mexican, $5\frac{2}{4}$; Don Pedro, $\frac{3}{4}$, $\frac{3}{4}$; Cape, $2\frac{3}{4}$; Fortuna, $5\frac{1}{4}$; Capula, $\frac{1}{4}$; Lusitanian, $\frac{3}{4}$: Montes Aureos, $2\frac{3}{6}$; Santa Barbara, $\frac{1}{4}$, $\frac{3}{4}$.

The closing quotations for shares in new undertakings were:—British and Foreign Marine, 1½, 2½ prem.; Oil Wells of Canada, 3, 3½ prem.; City of London Fire and Life, 4, 4½ prem.; Petroleum Trading, ½, ½ pm.; Union Marine, 2, 2½ prem.; Empire Marine, ½, ½ prem.; Bank of Gibraltar and Malta, 1, 1½ prem.; Continental Bank, ½ dis, to ½ prem.; Intercolonial Bank of Australia and New Zealand, ¾, 1 prem.; Mercantile and Exchange, ¾, 1½ pm.; London and South American Bank, ¾, 1½ pm. Vigra and Clogau shares closed at 26, 28; West Clogau, ¼ dis. to par; St. David's, ½, ½ dis.; Nova Scotia, ¾, ½ dis.; Dolfrwynog, ½ dis., ½ prem.; East Cambrian, par to ½ prem.; and Anglo-Prussian, ¾, 1 prem.

A prospectus was issued yesterday of the West of England Coal and Iron Company (Limited), capital 100,000%. The object of the company is the acquisition, by purchase or lease, of several tracts of coal and iron ore in the Forest of Dean, the operations on some of which have already commenced. The superior quality of the Forest of Dean house coal and iron ores, together with the increased railway accommodation which is now being extended to this rapidly-rising and important district; above all, the practical and business character of the board of directors, which is highly respectable and influential, lead us to believe that the company will meet with success in its object. The gentleman appointed is well known in the mining world, and from his extensive and intimate knowledge with the Forest of Dean, we think this appointment considerably adds to the other circumstances which render the probable success of this undertaking so apparent. Full particulars will appear in our advertising columns next week.

IRISH MINE SHARE MARKET.—Our citizens have done their best to show their loyalty and devotion to the Royal Family, and, so far as the illuminations of public buildings are concerned, have fully succeeded, according to accounts from London, in out-doing the metropolis of the universe. Of course, we had our provincial riots, and our Lord Mayor considered it expedient to recommend an extinction of all illuminations on Wednesdey night in order to revent visits in our city. but with the exverse. Of course, we had our provincial riots, and our Lord Mayor considered it expedient to recommend an extinction of all illuminations on Wednesday night, in order to prevent riots in our city; but, with the exception of those necessary national by-plays, everyone seemed bent on rejoicings and holiday making, rather than on attending to the more sober avocations of life. This accounts for the comparative absence of any desire on the part of the wealthier classes to patronise speculations of any kind which might require more serious calculation or consideration. Thus we have had a very quiet week as regards the transactions in mining shares. Nothing whatever was done in Carysfort shares, nor in Hibernian, Castleward, Crookhaven, or Carbery. But Wicklow Copper shares opened at an advance of 5s. per share on last week's prices, and were in request, at 412. 10s. (52. paid). A small number, however, changed hands at 412. 5s., which price is now refused by holders. Mining Company of Ireland shares were dealt in at last rate, 194. 12s. 6d., and are firm. General Mining Company for Ireland shares gave way 2s. 6d. per share, being now procurable at 52. (44. paid). The explanations given by the directors of the Connorree Mining Company, at their half-yearly meeting, on Thursday last, tended to strengthen the tone of the market for their shares, which were in demand at 20s. 6d.

The principal points treated upon in the directors' and manager's reports are the retirement of Mr. Markham Browne from the office of resident managing director, which he occupied, according to special arrangement with him, for the first three years of the existence of the company, and the issue of the remaining 10,000 (12.) shares of their capital. The directors further report that during the temporary depression of the alkali trade they have deemed it their best course to apply themselves energetically to the development of their "grat quartz lode," and other copper resources of the mines, which will make the company to some extent independen

chemist from Clausthal, Germany, to superintend and manage the chemical operations in extracting copper from poor ores; and of Capt. W. Bishop, a Cornish miner, for the purpose of attending to the economical raising and preparing of the same for the market, appears to have given general satis-

preparing of the same for the market, appears to have given general satisfaction to the shareholders, who have every confidence in their mines ere very long paying profits, derived from copper as well as sulphur.

Many readers will be interested in learning, as reported here, that a company in London is about to take the Meiklam Pit, at Harrington, and that in the event of any difficulty being in the way of raising the coal from the present old workings, new sinkings will be immediately commenced. The quality of the coal expected to be raised is the identical William Pit band. Should this be the case, it will be something new in the coal trade to have a supply of Whitehaven coal coming to this market outside of Lord Lonsdale's royalties.

A correspondent has furnished the following remarks in "Our Mines."

a supply of Whitehaven coal coming to this market outside of Lord Lonsdale's royalties.

A correspondent has furnished the following remarks in "Our Mines in the West" to the West Carbery Eagle, from which I am requested to extract them for publication in the Journal:—

"It always affords us pleasure to learn that our mines in the West are progressing in a satisfactory manner, as their successful working is of vast importance, not only to the proprietors, but to the district in general, as every person resident in the locality of the mines is either directly or indirectly benefited by the constant ontiay of capital in their development. It is 40 years since the Great Cappash Mine was last worked. The old miners of the district always maintained that there was a valuable deposit of rich copper ore in the bottom of the mine, and the result of recent operations has realised the fact. The mine, it seems, has just been cleared of water and rabbish to the bottom.—84 fathoms from surface—and a vein of copper ore discovered worth 100f, per fathom. The ore is grey, intermixed with yellow, and some specimens were shown us which competent authorities state will yield 60 per cent, of pure metal. It has a very similar appearance to specimens of copper ore we have seen from Cuba and Chili. It is a cheering sight to witness the activity and well-directed application of labour in every department of these most extensive works. The machinery erected is of the most powerful and perfect description for pumping, hauling, crushing, and pulverising the ore. Labour is applied in various ways, from girls, who are employed at 6d, per day in sorting the different kinds of ore, up to the skilled artizan and engineer; while the ore. Labour is applied in various ways, from girls, who are employed at 6d, per day in sorting the different kinds of ore, up to the skilled artizan and engineer; while the ore. Labouring in his vocation, sends to the surface the rich and shining heaps of ore extracted by his skill and practical knowledge from the

At Redrath Ticketing, on Thursday, 2549 tons of ore were sold, realising 12,533l. 0s. 0d. The particulars of sale were:—Average standard 116l. 11s.; average produce, 6f; average price per ton, 4l. 18s. 6s.; quantity of fine copper, 167 tons 14 cwts. The following are the particulars:—

mpared with the corresponding sale of last month, there has been a

s light advance.

s light advance.

At the Wheal Tremayne meeting, on March 6, the accounts showed a debit balance of 2811. 15s. 1d. Capts. R. and J. Williams reported on the mine; they "have now 82 men employed on ground on tutwork, and 30 on tributs. On the whole, our prospects are still cheering, and much the same as for some time past, and we fully expect from present appearances to rate 40 tons of tin for the next three months."

At Alt-y-Crib Mine meeting, on Monday, an adjournment took place, there not being present a sufficient number of shareholders to form a quorum.

At Trelyon Consols Mine meeting, on March 4, the accounts showed a debit balance of 6100. 1s. 3d. A call of 10s. per share was made. Messrs. Higgs and Son, the pursers, state that "the mine may now be considered as a more permanent concern than at any former period. The north tode, which has been opened on in the last few months, appears to be as productive as the tode which has hitherto made the profit. Provide and Trelyon United Mine (on which we have expended about 1000). will now meet its own cost, and when more developed leave a profit; so we do not anticipate any further cail."

At the Connorree Mining Company meeting, on Thursday (Dr. J. F. Waller in the chair), the report and accounts were received and adopted, and thanks were voted to the Chairman for his conduct in the chair. The directors report appears in another column.

At North Hafod Mine (special) meeting, on Thursday (Mr. Thistelton At 1000 the content of the chair of the chair of the chair of the chair of the content of the chair of the chair of the content of the chair of the chair of the chair of the content of the chair of the c

another column.

At North Hafod Mine (special) meeting, on Thursday (Mr. Thistelton the chair), an adjournment took place.

At the North Roskear Mine meeting, on Thursday (Mr. T. R. Field in the chair), the accounts for the two months showed a profit of 1871. It was unanimously agreed to work the western ground as a separate company, and to erect steam-stamps. The report upon the eastern mine was of a favourable character for tin and copper.

At the Devon Wheal Buller meeting, on March 7, the accounts showed a debit balance of 3931. Ils. The unpenid calls amounted to 3941. Ils. 64. The meeting was adjoutned to March 23, at the Bedford Hotel, Tavistock; and the committee were instructed to engage a disinterested and competent agent to inspect the mine, and the report to be presented at the adjourned meeting.

At the Caradon Consols mine meeting, on Wednesday (Mr. Buckland in the chair), the accounts to the end December showed a debit balance of 1831, 10s. 24. Call of 185. per share was made. Details in another column.

At Linarse Mining Company meeting, on Thursday, the directors declared

At Linares Mining Company meeting, on Thursday, the directors declared dividend of 5s. per share. The meeting of shareholders is convened for March 26.

dividend of 5s, per share. The meeting of shareholders we determine the Fortuna Min. 6d (Company meeting, on Thursday, the directors cleared a dividend of 3s, 4d, per share. The meeting of shareholders was convened

At the Scottish Australian Mining Company meeting, yesterday (Mrekson in the chair), the report of the directors was received and adopted. The retiring rectors and auditors were re-elected. Details in another column. At the Great Wheal Vor United Mines meeting, to be held on Wed needay, the profit and loss account, made up to the end of December, shows a profit of it. 2s. The cash account made up to the end of January shows a balance of receipts it sees of payments of 1717.6 s. 7d. The amount unpaid on calls amount to 7i. 4s. 5.3 There were 94 fms. 2 ft. of ground sunk and driven during the three months.

LEEDS, MARCH 12.—There has not been much activity manifested in mining shares; business has been dull, and no important change in prices. The Cornubia Tin Mining Company (Limited) had a sale of tin last week, which realised the sum of 400L, and one the month previous, which realised 350L; and it is confidently expected that sales of tin of increased value will be made monthly by this mine.—John Glednitt and Co.

LEEDS, MARCH 12.—During the past week the mining market has been very active, and several heavy transactions have taken place, especially in Wheal Prudence shares, at advanced prices. The prespects of the Cornubia Mining Company are very cheering, and a considerable advance in their value may be looked for.—Edward Brook, Mining Broker, 5, Bank-street.

The following are the Government Returns of the exports of articles identified with mining, the produce and manufacture of Great Britain, for the month ending Jan. 31, 1863; and also as compared with the month ending Jan., 1862; extracted from the "Accounts relating to Trade and Navigation," published by the Board of Trade:—

| Declared Value for the Month ending January, 31. | 1862. | 1863. | In 1862. | 1863. | In 1862. | 1863. | In 19,021 18,847= 231,006 27,158 hinery:—
Steam-engines.....£ 53,962
Other sorts£ 144,920= 198,882 132,147 120,005= 252,152 53,270 £ 700,621 ... 53,27 £ 700,621 ... -£ 700,621 ... -153,062 161,148 27,292 2,727 28,303 60,399 132,361 2,051 -
 Other sorts
 144,920 = 198,882

 Total
 £
 636,868

 Metals: —Iron—Pig
 £ 61,991
 636,868

 Bar, boit
 120,920
 Railway
 107,670

 Wire
 11,351
 Ditto telegraphic
 44,145

 Castings
 42,082
 44,982

 Hoops
 44,987
 44,987

 Wrought
 148,414
 Old, for re-manufac
 115= 590,645

 Steel
 50,324

 Copper –Unwrought
 34,230
 Wrought, bars, &c.
 91,646

 Other sorts
 14,785=
 140,061
 18,608

 Brass
 12,433
 18,608
 16,608

 Ore
 9,543=
 31,086

 Tin-Unwrought
 22,492
 42,283

 Zinc
 3,069
 3

 Grand total
 £ 1,557,436
 43,493 26,051 71,155 5,410 Grand total £ 1,557,436 £1,687,007 £169,187 Less decrease—Coals and culm, 16,6751.; copper, 14,9491.; brass, 7,9921.. 39,616 Total increase£129,573

Coal Market.—On Monday the fresh arrivals only amounted to 26 ships. The tone of the market for house coal was slightly better, but Friday's prices were quoted for all descriptions of coal. Best house coal, 16s. to 17s.; seconds, 12s. 6d. to 14s.; Hartley's, 12s. 6d. to 14s.; manufacturers', 12s. to 14s. per ton.—On Wednesday 32 ships arrived. The cold weather produced more activity in the market for house coal, and prices advanced fully 3d. per ton. In Hartley's and manufacturers' a steady business, at previous value.—On Friday, only 10 fresh ships arriving, there was a decided improvement in the market for everything, the advance in prices being from 3d. to 6d. per ton all round. South Hetton Wallsend, 17s.; Haswell Wallsend, 16s. 9d.; Lambton Wallsend, 16s. 6d.; Tees Wallsend, 16s. 3d.; Russell's Hetton Wallsend, 15s.; Eden Main, 14s. 3d.; Hetton Lyon's Wallsend, 13s. 6d.; Heugh Hall Wallsend, 14s.; Davison's West Hartley, 14s. 9d.: 4 cargoes unsold; 130 ships at sea.

BRISTOL COAL TRADE,—During Feb. 477 tons of coal were exported oversea from Bristol, as against 748 tons in Jan., showing a decrease of 271 tons in the shipments. The exports were as follows:—Barbadoes, 300 tons; Melbourne, 90 tons; Jersey, 15 tons; St. John's, Newfoundland, 72 tons—Total, 477 tons. Some 1868 tons were exported in Feb., 1862, so that the shipments last month show a decrease of 1391 tons. The expects for the tree method of the present for the tree method. ports for the two months of the present year amount to 1225 tons.

AMERICAN SALE OF COAL RY AUCTION.—The sale of 30,000 tons of Scranton coal by acction took place at New York on Feb. 25. The sale is said to have brought full prices, and to have much disappointed those who were waiting for the sale to operate on a decline.

CORNISH PUMPING ENGINES.—The number of pumping-engines reported for Jan. is 29. They have consumed 2325 tons of coal, and lifted 18:3 million tons of water 10 fns. high. The average duty of the whole is, therefore, 53,000,000 lbs. lifted 1 ft. high, by the consumption of 112 lbs. of coal. The following engines have exceeded the average duty:—

Alfred Consols—Davey's 80 in. Millions 74:6
Carn Brea—76 in. 66:8
Dolecath—Harriett's 60 in. 55:6
East Pool—66 in. 55:6
Great Wheal Busy—Harvey's 85 in. 60:1
Great Work—Leeds' 60 in. 66:6
North Roskear—Doctor's 70 in. 66:1
North Roskear—Doctor's 70 in. 53:1
South Wheal Prances—Marriott's 75 in. 71:1
Stray Park—64 in. 53:7
Treloweth—60 in. 56:2
West Caradon—Elilot's, 50 in. 88:5
West Wheal Scho—Harvey's 85 in. 61:6
Wheal Ludcott—Willecoks' 50 in. 57:7
Wheal Scho—Tilly's 70 in. 69:4

DEED OF ARRANGEMENT WITH CREDITORS.—The Court of Common Pless, "guided" by a recent decision of the Lord Chancellor's, has held in the case of Berridge v. Abbott, that an arrangement by deed made ay a debtor, and expressed to be for the benefit of such of his creditors, parties to the deed, as should execute it within a stipulated time, is not an arrangement for the benefit of all his creditors, such as is contemplated by the 192d section of the Bankruptcy Act, 1862. It was admitted in this templated by the 1322 section could not be distinguished from that in exparts Morecently before the Lord Chancellor. The Court thereupon said it thought Itself gualthough not bound, by the clear expression of opinion of the Lord Chancellor in that and on that ground alone—that the benefits of the deed were not extended to all the ditors. Their lordships held that the deed was no answer to the action. ished from that in ex parte Morga reupon said it thought itself guide

Vice-Chancellor Wood proposes on Thursday next to settle the list of ontributories of the South Lady Bertha Copper Mining Company. The same judge process on the following day to make a call of 11. 7s. 0d. per share on the contributories of the Buller and Bertha Mining Company.

The Stock Exchange Committee seem to be becoming aware of the ne The Stock Exchange Committee seem to be becoming aware of the necessity of enforcing stringent rules with regard to the numerous new companies now seeking admission into that establishment. It appears that the recent hesitation of the committee to admit the shares of the Continental Bank (limited) to the privilege of quotation in the Official List consisted in a just polyperion to a clause in the Articles of Association giving the company power to deal in their own shares. The directors having undertaken to adopt measures for expunging the objectionable clause, the company has been admitted to the full privilege of quotation. A similar course, with the same result, was, we understand, pursued with regard to the Midland Banking Company (limited). Another proof of the increased vigilance of the committee is presented in a decision come to by them a few days ago, by which persons who had bought shares in the St. Cuthbert Lead Smelting Company (limited) have been prevented from buying them in against sellers who had failed to deliver them.

Messers, Earphrother, Clark, and Lyes pold by a notion, or Wednesday, as

Messrs. Farebrother, Clark, and Lye sold by auction, on Wednesday, at Garraway's, some valuable coal mining property, situate in the Forest of Dean, Gloucestershire, consisting of an undivided third part of a colliery known as New Bowson; an undivided third part of another colliery, known as East Deen Deep; and an undivided fourth part of another colliery, known as Sherridge, comprising an area of 1900 acres; held under grants from the Crown, subject to a royalty of a penny per ton on c.a. Laised:

The directors of the Mctropolitan Railway Carriage and Wagon Com-any have announced the issue of 10,000 shares, of 101, each, to the shareholders, being any have on their present holdings. The company was established about a year nees, and the first dividend was at the rate of 8 per cent. per annum, in consequence of its aving secured the important and lucrative business of Messrs. Wright, of Birmingham.

RAILWAY CALLS.—The amount falling due in March is 64,8271., making e total for the three months of the present year 1,468,602

GEOLOGICAL SOCIETY OF LONDON,—March 4: Mr. Leonard Horner, Vice-President, in the chair. Francis Drake, Leicester; Il Commendatore Devincenzi, nember of the Italian Parliament, Ministry of Agriculture and Commerce, Turin; Cav. Perzazi, Royal Corps of Mining Engineers, Turin; O. C. Marsh, M.A., 14 Linkstrasse, Berlin; and John Watson, Whitby, were elected fellows.

The following communication was read:—"On the Permian Rocks of North-Eastern Bohemia," by Sir Roderick I. Murchison.

On Wednesday, the following papers will be read:—I. "On the Correlation of the everal divisions of the Inferior Oolite in the Middle and South of England," by Harvey B. Holl, M.D., F.G.S.—2. "On recent Changes in the Delta of the Ganges," by James Fergusson: communicated by the President.

HEATING ORES AND GENERATING STEAM.—According to the invention Mr. W. Bliss, a blast furnace is used, which is closed at its lower end by a valve or ide, so that after the calcining is complete the ore may be discharged into a wagon for moval. The steam-boiler is heated by being placed in the retort, in which the flames id gases are continually playing around it.

NEW EXPLOSIVE COMPOUND.—A new explosive powder, invented by fir. Reynaud de Tret, appears destined to render great services to the working of mines, a consequence of its low cost price. It is stated to be particularly applicable to the rorking of stone quarries. It is composed as follows:—Nitrate of soda, 82 5; residue f tan (after having been used in the tanning of hides), 27.5; pounded suiphur, 20.0; otal, 100.0.

MINE BOILER EXPLOSIONS.—On Monday night last, the boiler of the pumping-engine at Trumpet United Mine, and that of the steam-whim at Basset and Grylls Mine, both in Wendron, exploded. The damage at the latter mine consisted merely in a plate being blown out from the tube, and will be repaired in a day or two. No casualty occurred in either case.—West Briton.

	LEA	D OF	ES			
	Sold on	the 6th	Marc	eb.		
Mines.	Tons		ice p		on.	Purchasers.
Minera					6	A. Eyton.
ditto			13	13	0	
ditto	100		13	13	0	ditto
ditto	35		13	13	0	ditto
ditto			13	13	0	ditto
ditto			13	13	0	ditto
	Sold on	the 11th	Mar	ch.		
Wheal Mary Ann	50		27	7 (Treffry's Trustees.
	Sold on	the 12th	Mar			
Maesyrerwddu	55	4	14	17	6	Newton, Keates, & Co.
Coetia Llys	60		15	3	6	
Deep Level	10	*****	13	7 (Newton, Keates, & Co.
Brynford Hall	8		12	17	6	ditto
Rhosesmor	25	******	8		0	ditto
ditto		*****	13		6	Walker, Parker, & Co.
Parry's	30	*****			6	ditto
Bryn Gwiog	*********** 30	*****	14		6	ditto
Long Rake	17	*****	14		6	ditto
Merllyn	Б	*****			0	A. Eyton.
East Merilyn		4	14		6	ditto
ditto		4	14		6	Newton, Keates, & Co.
Grestan		1	13		6	Walker, Parker, & Co.
Holywell Level	10				6	
Pantymwyn	25	*****	12		6	Walker, Parker, & Co.
Llangynog United	22		13		0	Newton, Kentes, & Co.
Minera Union	10	*****	13		6	ditto
Roman Gravels	20	*****	13	13	6	Walker, Parker, & Co.
	В	LEND	E.			
		the 6th		eh.		

Mines	Tons.	6th March. Price pe	r ton.	Purchasers.
Minera	 48	£2 15	6	A. Courage & Co.
ditto	 23 .	2 0	0	W. Kenrick.
ditto	 13 .	3 15	6	A. Courage & Co.
		K TIN		
Mines	Sold on the		у.	

Mines.	Ton	. c.	a.	Sol	d or	n the	6th	Februar,	Amo	nnt	. Purchasers.
Cornubia	. 2	16	3	17		£67	10	0	€ 192	0	10-New Blowing.
ditto	. 2	11	1	15		67	10	0 Februar	173		5—Daubuz & Co.
Leeds & St. Auby	n 1	8	0	23	2 011	67	10	0		3	6-Chyandour.
ditto	. 0	9	1	26		60	5	0		11	
								h March.			
Cornubia	. 2	18	2	11 .		69	10	0	203	12	6-New Blowing.
ditto	. 2	15	3	14	••••	69	10	0			4-Daubuz & Co.

COPPER ORES.

	Cons.		rice.	-	Mines.		ons.	12	rice.	
		£6	13	0	Tolvadden		31	.63	4	6
********	70	. 3	14	0	ditto .		29	. 5	10	- 0
	58	. 4	0	0	ditto .		3	15	0	0
********	56	. 8	17	6			48	2	1	6
	52	. 4	11	6					14	6
	45	. 9	18	6				-	17	6
********	43	. 3	16	0				4	2	41
	36	. 4	4	0	ditto .				13	()
*********	33	. 6	7	0	East Rosewar	ne		-	14	+1
ols	52	. 4	0	0					18	6
*********	50	. 1	2	6						0
**********	49	. 4	1	0					17	()
********	47	. 3	1	6					10	0
		. 3	15	6					9	0
*********	45	. 2	17	0					7	6
*********	26	. 0	10	0					11	6
*********	20	. 4	11	6				-	6	0
rea	63	. 4	19	6				-	17	4
********	61	. 7	0	0				-		6
********	53	. 4	9	6					1	0
	52	. 4	13	6					9	- 0
		. 6	9	6					11	6
********	33	. 3	12	0					3	6
********	. 15	. 3	11	0				-	19	0
	76	. 8	9	6				-		0
*******	68	. 5	3	0					0	6
********	. 66	. 5	4	0					11	0
gory	. 56	. 6	18	0					19	0
	47	. 2	9	0					0	0
			4	0				9	19	0
			10	0			4.0	8	4	6
**********	47	. 3	14	6				2	1	0
********	90	. 2	12	6			2000	-	-	-
	ols	70 58 58 58 58 45 43 43 43 43 36 36 50 50 49 47 46 45 52 61 53 52 41 33 115 68 68 68 69 67 47 48 43 8	75 £6 770 3 58 4 58 4 58 6 8 58 4 62 4 43 3 3 36 6 4 33 6 4 33 6 4 55 6 1 47 3 8 58 4 47 3 8 58 4 59 4 50 8 50 1 50 1 50 1 50 1 50 1 50 1 50 1 50 1	## 75 #6 13	## 75 ## 26 33 40 60 70 31 40 60 66 81 76 66 81 76 66 65 76 66 65 76 66 6	To To To To To To To To	75 £6 13 0 70 31 4 0 70 31 4 0 58 4 0 0 66 8 17 6 62 4 11 6 ditto ditto ditto ditto Copper Hill ditto	Tolyander	Total color	Total Color

Gitto 8		10		Great Work		16	. 8	•	- 6
Tolvadden 47	3	14	6					1	0
		12	6						
	TO	TAI	P	RODUCE.					
West Basset 468 £2	695	8	6	Wheal Buller	61	£	351	7	6
Alfred Consols 335 1	013	12	6	South Crenver	61		191	1	0
East Carn Brea 318 1	658	4	6	North Basset	60		245	9	6
	387	10	0	Wheal Anna	56		310	16	0
Wheal Margery 154	639	14	0	Wheal Agar	38		190	19	0
Tolvadden 142	563	11	0	Charlotte United	26		118	-6	0
	496	18	6	Nanglies			102	14	0
Prosper United 119	443	17	0	West Trevellyan	22		154	0	0
East Rosewarne 111 1	008	6	0	South Carn Brea	17	****	50	3	0
	609	9	0				131	12	0
Treworlis 67	191	7	0	South Dolcoath	14		28	14	0
1	***		-						
	Tolvadden 47 ditto 52 West Basset 468 £2 Alfred Consols 335 1 1 East Carn Brea 318 1 Par Consols 210 1 Wheal Margery 164 Tolvadden 142 Copper Hill 141 Prosper United 119 East Rosewarne 111 1 East Rosewarne 111 1 Treworlis 67	Tolvadden 47 3 ditto 52 2 TO West Basset 468 £2695 Alfred Consols 335 1013 East Carn Brea 318 1638 Far Consols 210 1337 Wheal Margery 164 639 Tolvadden 142 563 Copper Hill 141 496 Prosper United 119 443 East Rosewarne 111 1088 Wheal Mury 87 669 Treworlis 67 191	Tolvadden 47 3 14 ditto 32 2 12 TOTAL West Basset 468 22695 8 Alfred Consols 335 1013 12 East Carn Brea 318 1658 4 Far Consols 210 1337 10 Wheal Margery 154 639 14 Tolvadden 142 563 11 Copper Hill 141 496 18 Trosper United 119 443 17 East Rosewarne 111 1008 6 Wheal Mury 87 669 9 Treworlis 67 191 7	Tolvadden 47 3 14 6 ditto 32 2 12 6 7 TOTAL P West Basset 468 £2695 8 6 Aifred Consols 335 1013 12 6 East Carn Brea 318 1658 4 6 Par Consols 210 1337 10 0 Wheal Margery 164 653 14 0 Tolvadden 142 563 11 0 Copper Hill 141 496 18 6 Presper United 119 443 17 0 East Rosewarne 111 1008 6 0 Wheal Mary 87 609 9 0 Treworlis 67 191 7 0	Tolvadden	Tolvadden	Tolvadden	Tolvadden	Tolvadden

COMPANIES OF WHICH THE ORES WERE I CHO	IASEL			
Tons.	Amo	unt.		
Vivian and Sons 2871/ 2871/	£2054	0	0	
Freeman and Co	704		6	
Grenfell and Sons 232	1591	8	0	
Crown Copper Company 92 5-6	564	12	8	
Sims, Willyams, and Co	1483		6	
Williams, Foster, and Co.	694	2	8	
Mason and Elkington	1811	14	0	
Bankart and Sons	730		0	
Copper Miners' Company 256	1113	0	0	
Charles Lambert 23514	471	4	0	
Newton, Keates, and Co	451	10	0	
Sweetland, Tuttle, and Co 173	291	3	6	
Neath Copper Company 761/3	472	4	2	
Total 9549	10 599	0	0	

Copper ores for sale on Thursday next, at the Royal Hotel, Truro,—Mines and parcels.—
bevon Great Consols 2071—East Caradon 505—Phomix Mines 500—Marke Valley 420
Hingston 10wm 405—New Wheal Martha 251—East Rossell 222—Beford United
09—Holmbush 191—Wheal Edward 178—South Bedford 174—Kelly Bray 167—Wheal
mma 140—Wheal Friedshship 150—Brook wood 81—Wheal Vyvyan 40—Furadon 26.

Total, 5710 tons.

Copper ores for sale on Thursday week, at Tabb's Hotel, Redruth.—Mines and Pa—South Caradon 518—West Caradon 455—Great Wheal Buay 420—North Tresh S31—Clifford Amalgamated 238—Fowey Consols 310—Wheal Polmers 212—Downs 202—Craddock Moor 188—St. Day United 78—Wheal Rose 50—Burns 141—Wheal Towan 26—Perran Mines 25—Wheal Pradence 22—Wheal Damael Buckingham's Ore 18—Pembroke 2—Total, 3271 Tons.

Prize Medals-Paris, 1855; London, 1862.

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P R O G R E S S O F M I N I N G in 1862.—
Dividends paid, £273,049. Loss on mines disappeared, £515,452. New companies advertised, 30; share capital, £889,772. Capitalists should read TREVOIR AND CO.'S "MINES AND MINING," and learn to estimate the rubbish so pientifully provided for their ruin. Per post, 13 stamps.—21, Sun-street, London, E.C. Recommended by the "Cautious Man."

TO MINING SPECULATORS.—A great deal of money may be made by speculating in mines, but the greatest caution is necessary. No one is so capable of guiding others in such transactions as an old and experienced speculator. Such a one, then, is the writer of the letters in the Mining Joursal, who writes under that signature of "A Cautious Man." His great experience during the last sixteen years will be of invaluable service to any speculator who may employ him as his broker.—Address, Mr. Haler, mining broker, 2, Copthall Chambers, Thregmorton-street, London.

Bankers: The Metropolitan and Provincial Bank.

Motices to Correspondents.

• Much inconvenience having arisen in consequence of several of the Numbers during the past year being out of print, we recommend that the Journal should be regularly Aled on receipt: it then forms an accumulating useful work of reference.

LABILITY OF SHAREHOLDERS.—In the case of a batch of shareholders in a mine being sued for non-payment of calls, and the shares are declared forfeited by the Vice-Warden of the Stannaries Court, and supposing the result of the sale does not realise the amount claimed, are the said shareholders still liable for the balance? And, it so, would the claim be limited to each individual self for his amount only, and quite irrespective of his companions?—A. C.

irrespective of his companions?—A. C.

SLATZ MOUNTAIN.—Will you kindly permit me to suggest the propriety of the secretary of this company informing the shareholders from time to time, through the Journal, of the operations and progress going on in the undertaking? When the Slate Mountain Company was first placed before the public they were given to expect great things, but so far as I know all we have got as yet is one annual report, with a call of 14, per share. Surely the secretary can have no objection to publish from time to time a statement of how matters are going on. Indeed, I consider the shareholders have a right to it.—A SHAREHOLDER.

rgp.—For the satisfaction of the general body of shareholders, it is abso-sary that the financial committee should officially contradict the damaging mewhat freely circulated, that certain of its members are in arrears of

call.—ALPHA.

WHEAL LOBOUT AND WRET CONSOLS.—It is very singular, but no less true, that whenever the manager publishes what may be called a favourable report upon this property it is immediately followed by another of a totally different character, from an agent who has attained some repute in the district. While I would not have it supposed for one moment that I am impugning the correctness of this agent's report, yet it is somewhat strange that, if the manager of the mine sisses a report less favourable than usual the second authority does not "inspect the mines," and, of course, no report is issued. There may possibly be some justifiable reason for this, which I should be giad to have explained.—A SHAREHOLDER.

WHEAL TREESY (Buckfastleigh).—We hear it is intended to resume work at this mine.
Will some one of your readers inform us, through the Journal, if a mejority have the
power to make a call upon all holders of shares to the day of meeting? and if so, by
what means the liability can be got rid of?—Shareholder.

what means the liability can be got rid of?—Sharkeholders.

North Roskean.—Concurrently with the last general meeting, at which notice was given that at the next meeting it would be proposed to divide the sett, the shares rose to something like 65i., upon the assumption, I suppose, that the shares in the new sett would be worth the difference between the market value of the original shares at the date of that meeting and the price to which they rose immediately subsequent thereto. There can be no question that this is the correct interpretation of that sudden enhancement in the value of the shares, because when it began to be thought that there was an uncertainty as to whether the sett would be divided the shares receded in value nearly 20t.; but when rumours were again circulated that the sett would be divided, the shares race more rose to something like 60i. It is necessary that this should be known, because it may be that these shares will soon be said to have attained a much higher value owing to the sett having been divided, whereas that additional value has been attained by anticipation. It is not for me to profess to be a Zadkeil, but I think I can safely surmise that, if these shares should within the next few days materially increase in market value, as surely will they as quickly propor-

the supposed result of a certain act is fully anticipate before the set is accomplished, any subsequent effect in the same direction must be produced by artificial means, and the result will not be permanent. Ergo, if the sett should be divided at the meeting held this week, and the shares advance in value, they must, naturally enough, decline within a very short period. —J. T.: Plymouth.

Sig.—Will any of your readers be kind enough to inform me what Carbonate of Barytes, of good quality, is worth per ton; and where a market can be found for it?—JARES ROACH: Llossidoes, March 13.

EAST CANN BREA.—We cannot publish the letter written by "A Subscriber" (Redruth). It would be unfair to make such charges and insinuations without the writer's name being attached. "A Subscriber" should communicate any precise information he may have to the committee; or, better atill, attend the next meeting, when he can ascertain the correctness of the statements he now wishes to publish, and have any irregular conduct rectified.

guiar conduct rectified.

The Prince of Wales, and the Ducht of Cornwall—"D. T." (Collingwood).—
His Royal Higness was created Prince of Wales and Earl of Chester by Patent, under
the Great Seal, on Dec. 4, 1841. Since 1843, the eldest son of the Crown of England
has borne the title of Prince of Wales, assaily by creation, but in some few cases
simply by being so declared. With regard to the title of Duke of Cornwall, his Royal
Highness holds it under the Patent of 1837. King Edward III, created his eldest son
(Edward the Black Prince) Duke of Cornwall, with limitation to him and his heirs,
eldest sons and heirs apparent of the Crown of England, for ever, by Patent, 1337.
The above is on the authority of the Norroy King of Arms (see "Lodges" Perags and
Baronetage." There is no peer or baronet bearing the name mentioned by "D. T.,"
the baronetage having become extinct a few years slines. "Cost-book System, how is it
that the late directors do not convene a meeting of the shareholders, to determine
as to the disposal of the reserve fund, which is no longer necessary? How are does
the power of the late directors extend as the committee of management under the
Cost-book System?—X. X. Z.: Leeds.

LAMTWIT VARDRE COLLIEST (LIMTED).—Have this company taken the whole of the

LANTWIT VARDRE COLLIERY (LIMITED).—Have this company taken the whole of the coal measures under the acreage described in the prospectus, or are one or more of the measures under lease to other parties?—F. R. S.

Tream or Common Roads.—I understand that, according to the present metropolitat police arrangements, traction-engines are not allowed to run in the City except be tween the hours of ten at night and 6 in the morning, and I should be glad if som of your correspondents could inform me whether this regulation applies to all vehicles moved by steam, or only to the traction-engines which are used for drawing heavy loads? For instance, would an omnolins propelled by steam, working noisplessly, and condensing the steam as made, be prohibited?—VAPOUR.

condensing the steam as made, be prohibited?—VAPOUR.

**PARCTICAL MINING—CRUSHING ORES.—During the recent International Exhibition you described a "Little Giant" stone-breaking machine, which was exhibited in the United States Court. You stated, moreover, that the machine had been extensively used in America, and that it had in every instance given satisfaction; and as there must be an enormous quantity of mining produce that requires to be broken down to—say, I in. cube, I should be glad to learn whether the machine has been applied upon any mine, and, if so, with what amount of success? I examined the working of the model, which was not more than a foot square, and the ease with which it reduced hard fine pubbles half the size of one's fist to the size of peas was really marvellous. But this is not all; the machine is of that simple character that I should think it would be almost impossible for it to get out of order, and if It did any smith could at once repair it.—CUMBILAN.

pair II.—CCHERIAN.
uin,—In the Journal of Dec. 27, 1862, is a statement, in an article headed "The Mining Districts," and apparently on the authority of Mr. Robert Hunt, that in the castern district Gunnis Lake Mine (Clitter's), in the year 1861, produced 1337 tons=8949. As I am anxious to know if this statement be reliable, perhaps you will allow me to bring my enquiry under the notice of Mr. Hunt.—P. T.

bring my enquiry under the notice of Mr. Hunt.—P. T.

Last Kongsbeid Native Silver Mining Company of Norway.—What are the shareholders to infer from the scant information communicated in the last directors' report?

We are neither told what is being done, nor what it is proposed to do. We are left
to form our own conclusions as to whether the mines are being worked, or whether
operations have been wholly or partially suspanded, or whether the silver, if any, that
has been returned has left a profit or otherwise. At the last general meeting we were
informed that operations were progressing satisfactorily. Are they now progressing,
or not? I think we, as shareholders, have a great cause of complaint against the directors, for not supplying us with information upon all these points, for that is the
only means we have of forming any opinion, either as to the position or prospects of
our property.—A. B. C.: Edinburgh.

only means we have of forming any opinion, either as to the position or prospects of our property.—A. B. C.: Edinburgh.

ASTETY-LANTS.—Can any of your correspondents inform me, through the Journal, whether the Argand safety-lamp, invented, I think, by Messrs. Howden and Thresh, of Wakefield, is in general use in any coiliery? If so, where and with what success? I take a particular interest in this lamp, because I have heard, from no less an authority than Mr. Robert Hunt, the Keeper of Mining Records at the Government School of Mines, that the lamp has really much to recommend it, and that in use it offers some phenomena that are well worthy of examination. Perhaps the most important is, that when immersed in an explosive mixture of fire-damp the flame is gradually diminished until it is reduced to the size of a fine thread, yet it is not extinguished, and regains its brilliancy when the air becomes non-explosive. Now, not having seen this lamp in use myself, I have had no opportunity of witnessing the effect; but if it really be as stated, its importance cannot be over-estimated, for the lamp must possess, under ordinary circumstances, the illuminating power of the Musseler or any other glass-sided lamp, with the advantage of becoming incapable of inflaming an explosive atmosphere. If the lamp be not in use, I should be glad to learn whether the patent right has been abandoned.—Coat.

[Advertisement]—Whera Herare.—I should feel obliged if any of your readers could inform me how it is that Wheal Hearle shares have lately dropped from 181, and 201, to 234.? Is it as Mr. Tredinnick, in his recent circular to the shareholders in Wheal Hearle, of Feb. 23, says, owing to the mismanagement of the property? Surely, if this be so, ought not the shareholders to see to it? At the last quarterly meeting, held at the London Tavern, Feb. 25, there is not a word in the report then read giving one to bolleve there is any mismanagement. But surely a man of Mr. Tredinnick's position, and either holding, or has held, a large int

To Directors, Solicitors, Secretaries, &c.

IMPORTANT TO ALL CONNECTED WITH PUBLIC COMPANIES.—Now ready, price 2s. 6d., A HANDY BOOK OF WHAT TO DO AND HOW TO DO IT, IS ORDER TO FORM ANY MERCANTILE, MINING, AND OTHER JOINT-STOCK COMPANIES. Designed as a Practical Guide for Projectors, Promoters, Directors, Shareholders, Creditors, Solicitors, Secretaries, and other officers By Thomas Tapping, Esq., of the Middle Temple, Barrister-at-Law London: Published at the Mining Journal office, 26, Fleet-street, E.C. and to be had of all booksellers and newsmen.

THE MINING JOURNAL

Railway and Commercial Gazette.

LONDON, MARCH 14, 1863.

In last week's Journal we merely alluded to the Trade Returns. They are now before us for the month of January of this year, as respects the imports and exports of the United Kingdom. The latter amounted to 8,045,155L, against 8,439,055L in 1862, and 8,344,70L in 1861, which is a decrease of 393,900L in regard to last year, and 293,546L as respects

is a decrease of 393,900l. in regard to last year, and 299,546l. as respects the previous year.

The shipments of articles identified with mining enterprise give a contrary result; they show an increase of 129,571l., after allowing for an aggregate decrease in coals, copper, and brass of 39,616l. The total for January, 1863, was 1,687,007l., and 1,557,436l. in January, 1862. The falling off in coals and culm is set down as 16,675l. in value; in copper, 14,949l.; and in brass, 7992l. Iron represents an increase of 59,999l.; machinery, 53,270l.; hardwares and cutlery, 27,158l.; lead, 12,407l.; tinplates, 6872l.; steel, 3581l.; tin unwrought, 3559l.; and zinc, 2341l.

There are no changes in the form of these official statements for this year, but two additional heads are given in the metals. In the list of iron a separate mention is made of "old for re-manufacture," which is declared at 2051l. value of exports as compared to 115l. in Jan., 1862, and copper

a separate mention is made of "old for re-manufacture," which is declared at 2051*l*. value of exports as compared to 115*l*. in Jan., 1862, and copper is divided into three divisions, instead of two, by "wrought" being separated into "wrought, or partly wrought," and "wrought of other sorts." There is a decrease in "telegraph wire" which is striking; being included in iron it has necessarily detracted from the increase which is shown under that head. This year the amount exported is only 2737*l*., whereas last January it was 44,145*l*., which can only be accounted for under the appropriation that either was a social demand later than the second to the der the supposition that either there was a special demand last year, or that the bulk of the requirements for colonial and foreign telegraphs has

been mainly supplied.

The balance of trade is against us in the precious metals and bullion for January. The exports amounted to 2,896,151L, and the imports 2,079,354L, so that the shipments were 816,797L in excess of recepts. The exports so that the shipments were 816,797*l*. in excess of recepts. The exports consisted of 2,016,119*l*. in gold, and 880,032*l*. in silver, while the imports were 1,562,480*l*. in gold, and 516,874*l*. in silver, so that as respects gold itself we have 453,639*l*. more than shipped. The exports were to Egypt for India and China, 1,014,083*l*., against 595*l*. imported; France, 716,553*l*., against 74,712*l*.; Portugal, 292,849*l*., against 3005*l*.; Brazil, 223,974*l*., against 1533*l*.; Holland, 62,819*l*., against 2322*l*.; Gibraltar, 31,3674, against 598*l*.; Hanse Towns, 40,501*l*., against 26,558*l*.; and "other countries," 5350*l*., against 54*l*. received. On the other hand, we imported from the United States 763,324*l*., and sent only 179*l*.; from Mexico, 728,147*l*., against 9060*l*.; Holland, 38,657*l*., against 17,947*l*.; West Coast of Africa, against 9060l.; Holland, 38,657l., against 17,947l.; West Coast of Africa, 4392l., against 2261l.; and Australia, 429,876l., against 425l. remitted.

ately decline. Indeed, this must be so, according to the nature of things; for if supposed result of a certain act is fully anticipated before the act is accomplished, subsequent effect in the same direction must be produced by artificial means, and subsequent effect in the same direction must be produced by artificial means, and to Malta 30,021l., without receiving the precious metals in return.

The primary consideration of promoters of public companies is to secure as directors gentlemen of known position and integrity, and there can be no doubt that the inducements to embark in an enterprise are judged of by the public almost entirely upon the respectability or otherwise of the names composing the direction. In the case of the Great Northern and Midland Coal Company, a decision has been given by the Court of Bankruptey which will more than ever justify this mode of ascertaining the character of a public company—it has been, in effect, decided that where the qualification of a director is (say) 100 shares, such director is liable in case of the failure of the company to contribute the full value of the said 100 shares to the assets of the company, deducting only such amount as he may have actually paid in respect of such shares. In the case in question, the directors had each signed for 21 shares only, BUTCHER, the principal promoter and vendor, making them a present of 100 each, that they might be qualified for a seat at the board. The Court had placed these gentlemen on the list for 100 shares each, and for attendance fewer than the company in Aug., 1860, it had been resolved. ing of the promoters of the company in Aug., 1860, it had been resolved that the seven gentlemen thereafter to be directors should be holders of at least 100 shares each; and Lord Justice Turner had though it necessary that the effect of this resolution should be considered by the Court below.

The case was heard before the Court of Bankruptcy on Monday, when Mr. Commissioner GOULBURN observed that the Articles and Memorandum Mr. Commissioner Goulburn observed that the Articles and Memorandum of Association were signed on Aug. 25, but the directors only signed for 21 shares each, and in respect of those shares it had never been disputed that they were liable. The question was whether they were not liable for 100 shares in all, including the 21. The Court thought they were; for they had agreed to accept those shares, and were therefore, held to law and equity to have done what they agreed to do, and were bound to law. The Court would, therefore, hold that they were liable for 100 shares each. But it was said that they had taken those shares as paid-up shares, and were not further liable. Lord Justice Tuener had said in strong language that this was little short of fraud; they were held out to the world as holders of 100 shares, and to allow this plea of paid-up shares to prevail would be keeping the word of promise to the ear and breaking it to the hope. It was one of the worst features of those cases to notice the pitful evasions to which gentlemen would resort to evade their habilities. The Court would return, as answer to the enquiry of the Lords Justices, that these directors were liable in respect of 100 shares each.

COAL-TAR COLOURS—PEONINE AND AZULINE.—An additional colouring matter, from coal products, has recently been patented by Messrs. Guinon, Marnas, and Bonnet, of Lyons. The object of the invention is, in the first place, to transform carbolic acid into a red colouring matter, and then to convert it into a fast colour, capable of resisting acids and other agents. They take about 23 lbs. of carbolic acid, from 10 lbs. to 20 lbs. of oxalic acid, and from 7 lbs. to 14 lbs. of sulphuric acid; this mixture is heated until the colouring matter is formed of the requisite consistence, the excess of acid is then removed with boiling water, when it assumes the state of a light pitch, with a green shade of cantharides. It may be dried and reduced to powder by exposure to the air, or by means of a stove. To convert this into a more solid matter, take 24 lbs. of this less solid matter, and about 5½ lbs. of ammonia of commerce. This mixture is then put into a closed metallic vessel, then heated to a temperature of about 270° Fahr. for about three hours. This is allowed to cool, and then the vessel is opened. The matter originally introduced therein becomes completely dissolved in the ammonia, thence yielding a liquor rather thick, and with a considerable colouring power. This liquor, when treated with acids, furnishes a deep red precipitate, which is the new matter modified as required. This "péonine" is applicable to the dyeing of silk, wool, &c., red. By combining five parts of peonine with about six or eight parts of aniline a blue colouring matter is produced. The mixture is heated to a temperature near the boiling point, which is maintained for some hours until the material is completely transformed. The result thus obtained is a blue colouring matter, which is purified by means of successive washings, first with acidulated boiling water, next with heated coal oil, and, lastly, with a dilute solution of caustic alcali. The matter thus obtained is passed into acidulated boiling water, then dried. It is then in the form of a

The Relation between the Safe Load and the Ultimate Strength of Iron.—Several important points were raised during the discussion which followed the reading of Mr. Zerah Colburn's paper (an abstract of which appeared in last week's Journal) at the Society of Engineers. It was urged to be of the greatest importance that some precise data should be obtained as to the point at which the elasticity of iron commences, and also that at which it terminates, it being thought that where permanent set at a very low strain had been observed it must have occurred from an alteration of temperature. This theory was supported by a circumstance noticed in several cases while testing different samples of iron—that even the passing of a cloud upon a fine day had caused the iron to go back after it had apparently stretched. But it was stated that permanent set had never been found in really good iron under a strain of from 9 to 10 tons to the inch. Attention was called to the fact that after good soft iron had attained a maximum strain it had gone back. Another opinion was expressed—based upon the results of a long series of experiments —that when good iron showed permanent set under 10 tons to the square inch it arose from some defect in the bar at which point breakage took place. Pieces of steel iron had been tested, which, although reported to bear a strain of 40 tons to the inch, had been broken with a strain under 27 tons. As to the durability of iron for permanent structures, such as beidens & series as the when the the series is the strain under 27 tons. As to the durability of iron for permanent structures, such as beidens & strain that several cases when the several cases when the several cases were as a strain of 40 tons to the inch, had been broken with a strain under 27 tons. As to the durability of iron for permanent structures, such as beidens & cases when the test is the several THE RELATION BETWEEN THE SAFE LOAD AND THE ULTIMATE bear a strain of 40 tons to the inch, had been broken with a strain under 27 tons. As to the durability of iron for permanent structures, such as bridges, &c., it was thought that so long as the elastic limit was not exceeded, iron might prove as durable as stone. The general conclusions were that the breaking strain of iron was very variable, but that the elastic limit was even much more variable than the breaking strain. It was considered very desirable that more attention should be given to the subject, and that experiments as to the elastic limit of iron should be much more frequently made, and the results recorded, by which engineers would be able to form some correct opinions upon this increasingly important subject.

able to form some correct opinions upon this increasingly important subject.

Association for the Prevention of Steam-boiler Explosions.—At the last monthly meeting of the Executive Committee, Mr. Fletcher, chief engineer, presented his report. Three explosions have been reported since the commencement of the year. In one of them the boiler was externally fired, and of plain cylindrical construction, the ends being slightly doined. The length was 5 ft., the diameter 2 ft., and the thickness of the plates ½ in. in the ends, and ½ in. in the remainder. The safety-valve, which was supposed to have blown off at ½ lbs. pressure, was found on investigation to have been loaded to upwards of 100 lbs. A boiler, however, of such dimensions would, if well constructed, withstand a much higher pressure than that of 100 lbs. per quare inch; but in this case the man-hole had not been strengthened with any moutaplece, which, consequently, made a very weak point in the shell; and from which the explosion appeared to have arisen. Five rents had started from it, while the remaining fractures were all subsidiary to these, and nothing more than the simple development of them. The effect of the opening, an extra disruptive strain of about 10 tons, added to which, the cover being an internal one, there would be soting upon it an upward pressure of steam amounting to about 5 tons, and tending to drive it through the man-hole. The cover was a bad fit, being much too rounded, in consequence of which difficulty had always been experienced in making the joint, and it had been severely tightened by a stout bolt, which left the impression of the heels of the bridge in the plates. When it is remembered that the thickness of the plates was only ½ in., it will not be thought surprising that fracture should have occurred at the man-hole, under the above circumstances; and the fact of five of the rents emanating from this point, and all the ciaers being explicable upon the view that fracture commenced there in the first instance, it is thought t

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plosions. In conclusion, no cases of such excessive pressure as those given in the report above have ever before come under my observation, and I trust that it will be seen, from the results which followed, what a socree of danger an ill-appointed steam-boiler may become; and, also, how seriously the shoils of boilers are weakened by gashes cut in their plates, either at man-holes when unguarded by substantial mouthpieces, or at in their plates, either at man-holes when unguarded by substantial mouthpieces, or at in their plates, either at man-holes when unguarded by substantial mouthpieces, or at the base of steam domes; and I would recommend that all boilers should be fitted with a steam-pressure gauge, and those working separately, with a duplicate safety-valve.

SPECTREM ANALYSIS—MANUFACTURE OF CAST-STEEL.—At the Manchester Literary and Philosophical Society, Prof. Roscoe stated that he had been for some little time, and is still, engaged in an interesting examination of the spectrum produced by the flame evolved in the manufacture of cast steel by the Bessemer process, on the works of Mesars. John Brown and Co., of Sheffield. The spectrum of this highly juminous and pocular flame exhibits during a certain phase of its existence a complicated but most characteristic series of bright lines and dark absorption bands. Amongst the former the sodium, lithium, and potassium lines are most complicators, but these are accompanied by a number of other, and as yet undetermined, bright lines, whitst among the absorption bands those formed by sodium vapour and carbonic exide can be readily distinguished. Prof. Roscoe expressed his belief that this first practical application of the spectrum analysis will prove of the highest importance in the manufacture of cast-steel by the Bessemer process, and he hoped on a future occasion to be in a position to bring the subject before the Society in

The various contracts for rails which have been secured of late by Belgian firms, and which have been duly noted in the columns of the Mining Journal, have communicated, without doubt, great firmness to prices, and the tone of the market has been further strengthened by important orders for merchants' iron; while, as regards the future, encouragement is afforded by the fact that tenders have been invited for 5500 tons of rails required for the Tamines and Landen Railway. Pig has been more sought after, casting has become more scarce, and several works have raised their prices 2s. per ton; the lowest terms being now 3l. its, per ton for No. 5, with a margin of 2s. per number. The activity which building industry is expected shortly to acquire will, it is anticipated, increase considerably the demand for girders. Experiments have been made at the works of Messrs. Gallez and Company with a reverberatory furnace on a new system, introduced by Herr Salzer, a German engineer. It is stated that its excures great economy of combustible, and that puddled and re-heated irons thus obtained are of a very uniform description. Tenders are invited, deliverable March 24 at the latest, for the supply of 12 locomotives, 38 passonger carriages, 130 goods trucks, 2 snow-ploughs, and other accessories required for the Berne State Railway. Payment of interests and dividends are announced by a variety of undertakings, and among the list we notice that the Antwerp Steam Navigation Company proposes to pay 12h, per share in respect to dividends for the years 1848, 1849, 1850, 1851, 1852, 1853, 1854, and 1855. The Company for Promoting the National Industry of Beigtun, which has given such a powerful stimulus to Beigtan enterprise, and especially to metallurgical pursuits, has paid 15 per cent. per annum on its original capital for several years past, and its reserves now amount to about 1,600,000. No wonder that its shares stand at 150 per cent. premium.

to dividends for the years less, 16th, 16th, 16th, 16th, 16th, and 1856. The Comtorium to about 1,650,0001. No wonder that its shares stand at 150 per cent, premium. Little change has taken place in the prices current for copper in the continental markets. At Havre, the calm which has prevailed has been intensified by the effect produced by the important fall of 9th per ton, which
happened last month in the English market. A lot of 64 tons of Minesea and the standard of the standard standard standard the standard standard the standard sta

M. Edouard Dalloz, an advocate, and a member of the French Corps Législatif, has just published, in two volumes, a work on mining property, and the legal organisation of mines in France and Belgium. Among the inand the legal organisation of mines in France and Belgium. Among the industries which excited the least attention in past ages, but which now stand out in very bold relief, mining is pre-eminent. The extraction of coal has, especially of late years, acquired an immense development. In 1816 this extraction only amounted in France to 900,000 tons, but in 1857 it had risen to 7,900,000 tons. In the five years which have since elapsed further progress has been made in the extraction, and that which is true of France is also true of all other countries which possess coal bearings. Everywhere during the last 50 years the working of collieries has more than decupled, M. Dalloz has, therefore, published his work at an opportune time, and, as he is considered highly competent to treat of the subjects to which he directs his readers' attention, his book must be regarded as a valuable contribution to current literature. Called long since to a participation in public affairs, M. Dalloz has also been mixed up with all the great enterprises and miseralurgical workings of France, towards which the speciality of his works, and the turn of hig mind, attracted him. It is the mature result of these researches, and judicious observations which his experience has enabled him to make, that he has now delivered to the public. A law of April 24, 1810, serves as the starting point for the legislation on mines now in force in France and Belgium, and has been in chease on the contraction of the superior of the law of 1816, in order to see if those arrangements, as they are interpreted by jurisprudence and applied by the Government, constitute a legal system for mines sufficiently favourable to assure the full development of mineral production; and further, it this be not the case, to ascertain what are the principal innovations or medifications which should be introduced in order that mining law may find the element of weekings, and be able to cope with the menacing eventualities of a new situation. We propose next week to examine more i

METALLURGY OF SILVER—IMPROVEMENT IN THE OXIDATION OF SUL-PHIDES GENERALLY.—Mr. John McCulloch, analytical chemist of San-Francisco, California, has forwarded us a sketch of the process which he substitutes for those of Ziervogel, Augustin, and Percy for converting the insoluble sulphides of silver into soluble salts. He says:— "Knowing that it is just as easy to burn or oxidies sulphides as it is carbon, in what-ever form of fuel it may be, and that to do either it is simply necessary to apply a gentle heat and pienty of air, I determined to abandon any further operating with the rever-ber atory furner; willing to sacrifice all, it ever I had any, leaning towards the selfish and assumed aristocratic superiority of German scientific conventionalism, which is but comuch afraid of contamination from contact, and too often engaged in irrepressible conflict with practical efficiency. Mindful of the fact that the burning of London bricks, containing combustible matter, purposely made up in them, is at once the grandest,

easiest, and best process of oxidation that admits of ready illustration, I proceed a bushed and a half of common sawdust, and mixed it intimately with the remainder (980 lbs.) of the suriferous pyrites. This done, I made a moddy liquid, by stirring into 30 gallons of water two palisful of ordinary clay, and with this, after all the stones and rough sandy matters had subsided, I made up the bulk; stiff enough to retain shape when made into bricks. After being sun-dried the bricks were loosely but regularly piled together in pigeon-house fashion, with a vacant space in the centre to hold fuel, and outside, with the exception of the top and feed hole, there was a tight casing of common bricks and mud. Starting with a gentle wood fire in the piace left for the fuel, the burning was continued for 12 hours, and until the evolution of all sulphurous and acid fumes ceased, and nothing but ordinary fire smoke and hot air were given off from the heap or clamp. Nothing then remained to be done but to discard the casing and amalgamate the decomposed pyrites, which had become so brittle as to break down into fine powder by mere handling. The changes were no other than such as could not resist being brought about, and the result was the production of seven times more gold than had before been taken from a like quantity of the same pyrites, and, therefore, highly satisfactory."

REPORT ON CORNWALL AND DEVONSHIRE.

[PROM OUR CORRESPONDENT IN TRURO.]

MARCH 12.-I have more than once endeavoured to draw the attention of your readers to the unparalleled development of mineral wealth that is gradually unfolding itself in the mining district of Illogan and Camborne, skirting the north side of the Cara Brea and Cara Entral granite range. The productiveness of the mines of this district is, of course, widely known; but I doubt very much whether it is at all generally understood that no other mining district in the county, or, indeed, as far as our experience goes, no metallic mining district in the world, can be put in comparison with it. Notwithstanding the flowery rhetoric of projectors, brokers, and bal sellers, on the virtues of "depth," there is no fact better established in metallic mining than that there is a limit in depth in most districts to the productiveness of lodes, beneath which limits explorations are practically hopeless in an economical sense. In many districts in Cornwall, and in most of the best known mining districts of other countries, this limit has been practically ascertained and acted upon by prudent miners—although, of course, rash and ignorant speculators have frequently been, and, probably, ever will continue to be, found to undertake absurd and wasteful enterprises, in defiance of this experience. The popular hypothesis, that the metals found in veins had been injected upwards in a molton state from some metallic magma in the interior of the earth, fostered the notion that all lodes became richer in depth as they approached their original source of supply; and so comfortable a doctrine as this, albeit delusive, was too convenient a one not to be encouraged by the numerous, if not very exalted, class who gain a livelihood (such as it is) by making our metallic mining industry a source of waste and gambling. At the present moment, probably, there is a wide-spread delusion that all lodes may be expected to get richer in depth; but, unfortunately, save in the case of very few exceptional districts, such is far from being the case. In Cornwall even—the great classical home of metallic mining—we only know of your readers to the unparalleled development of mineral wealth that is gradually unfolding itself in the mining district of Illogan and Camborne,

which have now been continued for some years, nave failed to discover any deep-lying metallic deposits.

What the Gwennap district might have done, notwithstanding the immense quantity of water that has to be contended with, under fair conditions it is not now easy to say. The present position of Clifford Amalgamated affords no criterion of what that position might have been if the Consolidated Mines had been allowed to be worked out fairly. As it is, everyone knows that these great mines were irretrievably ruined, and the entire district damaged beyond reparation by a policy as remarkable for its shortsightedness as for its intense selfishness; a policy marked by its disregard of every other consideration than the gratification of domineering self-will, — of which we have quite recently had another notorious example. There is, therefore, in fact, only one district in Cornwall—that skirting the north base of Carn Brea and Carn Entral—in which we have failed to reach the productive limit in depth, although this district comprises the deepest mines in the county. So far from having unbottomed the metallic riches of the lodes, the deepest mine (Dolcoath) is the richest in the district, and the richest part of Dolcoath is the bottom. Mines which a few years ago were reckoned as about the poorest in the county have gradually developed themselves, and have become not only the most profitable of the day, but show future resources hitherto entirely without parallel in any metallic mines whatever. And, beyond this, it is now becoming evident, by the opening up of one mine after another, that this metallic development is not speculative—that is, capricious and uncertain—but that it really extends over the whole of this great district. The explorations, which were primarily induced by the magnificent success of Dolcoath, have in every instance that afforded a fair mining scope been crowned with success. Shafts that were stopped sinking years ago (as in East Pool and West Seton) having been resumed, soon cut into magnifice failures of the past are exclusively attributable to bad management. In Dolcoath, the oldest and deepest mine in the district, we can see our way for a generation; and looking at the way all the neighbouring mines are turning up, and their shallowness as compared with Dolcoath, it really seems as if this district possesses resources the limits of which are quite beyond our calculation. It is not too much to say that in all human probability the mines under the shadow of Carn Brea will be working prosperously when numerous others, as yet undiscovered, will be wrought out and abandoned. It is by no means impossible that this district may even see out our coal fields; and that as Britain was first heard of in the world as the source of tin, so this metal may remain the last representative of our enormous mineral productions.

as the source of tin, so this metal may remain the last representative of our enormous mineral productions.

Out of any of the mines of this district I know of none more interesting or instructive in their development than TINGROFT—whether we regard the mine itself, its past phases of management, or the estimation in which it has been held by the mining public. A little more than two years ago, in Nov., 1860, I gave a description and history of this mine in these columns. I then endeavoured to show the paramount importance of the district compared with any other in the county; and also the unappreciated importance of Tincroft in the district, as will be seen by the concluding paragraph, which I take the liberty of quoting now:—

"Ingroft is a mine which, from various causes, has been worked in a very unsatis-

which I take the liberty of quoting now:—

"Tincroft is a mine which, from various causes, has been worked in a very unsatisfactory manner through the greater part of its career; and, in fact, has not, on the whole, received fair play; if it had it would have made much greater profits. Now, however, it is working into a different position, and must soon be one of the meat important mines in this great district. Its present profits (6000f. n. year) will, as the ground is opened out, be gradually increased. If Dunkin's lode should continue for any length as it now is, there is no reason why Tincroft should not rise to take its place among the most profitable mines in the district. The speculation in this mine (and the same applies to the whole run) is really the maintenance of the price of tin. The ground can never be taken away in the time of any person now living, but the rate at which this is accomplished, and the consequent profits, will be accelerated or retarded according to the fluctuations in the price of the metal. Considering these things, a comparison of the price at which this is selling, and that (taking quoted prices as a guide) others are realising, show the imperfect appreciation in which some of the mines of this great run are yet held by the public, when we find a concern like this (where we can see our way for a generation) absolutely selling for less money than certain 'progressive' mines, against which the chances of success are at least 20 to 1."

When the man and the price of the metal to a content the progressive' mines, against which the chances of success are at least 20 to 1."

are jet field by ine planic, when we are a concern the airs care we can see a mines, against which the chances of success are at least 20 to 1."

When this was written Tincroft was selling for 5l, per share—at the rate of 30,000l, for the mine—that is for half the sum New Seton has been lately realising, and for one-third the price at which Tokenbury has been since quoted. Since I wrote that paragraph there has been no special discovery in the wine, and the price of black tin has receded fully 15l, per ton 1 yet the mine has doubled its profits, and increased fourfold in market value. Of course there is nothing suprising in this, for such a result was paipably obvious, although mining special ators were slow to perceive it; in fact, Tincroft had been wofully mismansged for a long number of years, having had the misfortune—the greatest misfortune that can occur to any mine—to be controlled by a London office and a London committee. Upon what principle London management select their agents might be a curious enquiry but, whatever may be the inducing motive, there is very little mistake about the result, for they almost invariably contrive to secure the least worthy, either in ability or character, of the mine agents of the county. Tincroft had got a horribly bad name, which, of course, is not a thing easily shaken off, even when it ceases to be deserved; and the mine was still under a "scrip" constitution, and at the mercy of a London board. Fortunately the majority of the mine was under the control of the manage, Capt. Teague, through the late Mr. J. G. Tyrle, so that he was practically able to smile at the ukases ofdirectors; a position to which the salvation of Tincroft is undoubtedly due. In the article referred to I pointed out two leading features in Tincroft—wiz, the ground on Chapple's lode, west of the Downright shaft, adj-ining Cook's Kitchen; and the the then recent discovery on Dunkin's lode. With regard to the former, I stated that "a comparison between this part of Tincroft and the eastern part of C

winze will be sunk, from which levels will, if possible, be extended east towards the othe levels, in order to open the ground as fast as possible. If, as is expected, the proposeds boundary wince should probably hole at some points to the Cool's Kitches workings that may be possible, as there would be no difficulty about the water, which would be anticipated. The ground water and the cool of the co

This reference to some of the features of Tincroft may serve to show the This reference to some of the features of Tincroft may serve to show the practically inexhaustible resources of the mines of this district. When, in addition to these natural advantages, we compare the enlightened liberality of the landlord, Mr. Robartes, with the grasping spirit (the modern representatives of the spirit of the fable of the goose and the golden eggs) of the petty yeomen, in a district such as Marazion, we see another inducement to invest in Illogan and Camborne mines. Mr. Robartes has recently granted the Tincroft adventurers a new lease, at the extremely moderate dues of 1-26th, with which he has only coupled the fair and humane condition that the company shall erect a man-engine, to which he

sment to invest in Illogan and Camborne innes. Mr. Robartes has recently granted the Tincroft adventurers a new lease, at the extremely moderate dues of 1-26th, with which he has only coupled the fair and humane condition that the company shall erect a man-engine, to which he has has himself liberally contributed 200l. When we compare these dues with those paid by the comparatively poor neighbouring mine of Carn Brea, thick are 1-18th, we are in a better position to appreciate Mr. Robartes' tenlarged views, which prevent his being influenced by so unfortunate an example. This engine will be at once put down to the 140, at Blight's shaft, and will, probably, cost the adventurers 1000l.

It would be impossible to refer to the success of Tincroft without coupting with it the name of the manager, Capt. Wm. Teague, to whom that success is most undoubtedly due. Besides, as far as he himself is concerned, this success has not been a barren one. Although of respectable family, Capt. Teague commenced life as a working miner, and he is still a young man; yet in a very few years he has succeeded in accumulating the largest fortune, probably, ever realised in Cornwall by a mine agent. He at present holds 2620 shares in Tincroft, the market value of which now considerably exceeds 52,000l.; and almost the whole of this has been made out of Tincroft. As a present share in Dolcoath (now worth 650l.) has been within a few years sold as low as 6l. or 7l.; so shares in Tincroft were selling for an old song when Capt. Teague first became connected with the mine. He, a shrewd man and a good miner, saw his opportunity. He invested all his savings in the mine, and has ever since continued to so, so that he now holds the immense interest mentioned above, not a share of which could he be induced to sell even at recent prices, although a remnant of the old board of directors still remains, and shows some determination. I believe, to die hard. As the collective interest of the four general passed carrying out this in its integrity; and i

Dolcoath is a deeper, and consequently a more expensive, mine.

Adjoining Tincroft, on the south, are the ILLOGAN MINES, a sett recently again put to work under the management of Capt. Teague. It was originally worked as Wheal Providence, on the western continuation of the Druid lode of Carn Brea, which has been one of the richest for copper in originally worked as Wheal Providence, on the western continuation of the Druid lode of Carn Brea, which has been one of the richest for copper in those mines. Subsequently it was worked by the Tincroft party, as South Tincroft, about 10 years ago, under the management of Capt. Peter Floyd; but this working was little better than nominal, except so far as spending money was concerned; yet several parcels of good ore were sold. Besides the Druid lode, which, from the great returns it made in Carn Brea, would appear to be as good a speculation as any in the district, there are four other known lodes, the two principal of which are the Caunter lode and the South lode. The Caunter lode was worked some years ago to the depth or 20 fms. from surface by a small engine at Cook's Kitchen, when that mine was under the management of Capt. Thomas Richards. Some tin was raised, and altogether it showed great promise; but a portion of the sett was taken away from Cook's Kitchen to make up the new sett, which includes portions of the lands of Sir R. R. Vyyyan, Mr. Robartes, and Mr. Basset. The South lode, which is supposed to be a continuation of the East Carn Brea south lode, has only been opened on at surface, but here it is a very promising lode. It has been found that the deep adit has been extended from the Druid lode, about 20 fms. south, towards this lode, which will be intersected about 30 fms. deep by 20 fms. further driving.

From the position of this sett—on the parallel of Tincroft, and with several well-known productive lodes—its success seems, like every other mine in the district, to be merelly a question of time. That it is under the management of—indeed, I may almost say a child of—such a successful

nager of Capt. Teague is of itself a guarantee of its character. The ine will soon be at work to fork the old mine, which is 60 fms. deep.

REPORT FROM NORTHUMBERLAND AND DURHAM.

MARCH 12.—The Coal Trade in Northumberland has improved a little lately; after a long depression like that which has lately been felt it is cheering to notice that an improvement has taken place. The collieries near Blyth—Cowpen and others—have been better employed lately. The other branches of the coal trade continue, on the whole, to be pretty well employed. The weather here lately has kept up its old character—that is, it has been excessively changeable, having been during the week ending March 7 very warm, quive as warm as is felt in the North in the heat of some summers, while the past week has been from changeable to moderate, and latterly excessively cold and stormy; very severe weather indeed during some of the days. This weather has, of course, to a considerable extent interfered with the displays of loyalty generally made throughout the district on the occasion of the Royal wedding-day; still they have been carried out with laudable perseverance, in spite of the untoward weather, to a great extent. The Coal Trade will, it is expected, receive a little impetus in some of its branches by this sudden and great change.

An explosion of gas took place in the Coxlodge Colliery on Friday, which has been attended with most disastrous results, twenty lives having up to the present time been sacrificed, and some others, three or four in number, who are severely burnt, still continue in a precarious state. The colliery is situated near Newcastle heing only 11 mile distant and is to MARCH 12.—The Coal Trade in Northumberland has improved a little

up to the present time been sacrificed, and some others, three or four in number, who are severely burnt, still continue in a precarious state. The colliery is situated near Newcastle, being only 1½ mile distant, and it is one of the oldest collieries now working in the district. The pits in the concern are rather numerous, the colliery being more favoured in that respect than many others. The workings are also very extensive, but the place does not appear to have been considered of a very fiery character. Davy lamps were used in some parts of the workings, and candles in others. The inquest was held, yesterday (Wednesday), at Bulman's village, before the coroner, Mr. Reed. Mr. Maddison, the head viewer, was examined, and explained the mode of ventilation. About 11,000 cubic feet per minute passed into the particular district where the explosion occurred, which was in Leonard's cross-cut; thirteen men were employed in this way, nine using safety-lamps and four using candles; the latter working in bords, and the others having commenced to remove the pillars. The evidence is too lengthy to give here is actions, but we give below extracts from the most important of the witnesses' depositions.

seam lies about 6 or 7 ft. above the workings in the Gosforth drift. I saw it by a fail of stone there.

Mr. T. E. Forster, viewer at Seaton Delaval, said: The accident at Goxfodge occurred on March 6, and I went down the pit two days afterwards. I was requested by Mr. Bower to go down and examine the workings. I came from the shaft to the point where Leonard's cross-cut and the Gosforth drift rolley-way diverge. I then proceeded from that point to the workings in Leonard's cross-cut way. The first place I came to was Bell's bord. I saw that there had been an explosion, but the props and the bord had not been charred. My opinion is that the explosion had been a very small one indeed. I came to the conclusion that this place of Bell's having holed into an old bord that had been partially filled with rubbish, and that a little gas ledged above the stone, and had fired at Bell's candle. I examined all the adjacent bords, and where they were taking off the ends of pillars, and found them all sweet and clean.—Mr. Dunn: Would you let the candles and lamps go on as they were? I would say, if the broken went on working in a short time they would have no candles there at all. If they had gone on another week they would have found it necessary to use lamps there.—Mr. Dunn: Are you quite satisfied that this is a proper system of ventilation? If there were no more goaf formed I would not spitt the air; but if I got a large goaf I would alter the system of ventilation. But I would remark that, if there had been a crossing at the back bord in all probability it would have been blown out by the explosion, and the same number of lives sacrificed.

John Collisson: I live at Kenton, and have worked twenty-six years as a coal-hewer

rentination. Dit I would remark that, it there had been a crossing at the back bord in all probability it would have been blown out by the explosion, and the same number of lives sacrified.

John Collinson: I live at Kenton, and have worked twenty-six years as a coal-hewer at Coxiodge Colliery. I am employed there now. There is a part of the evidence I wish to give an opinion on. There was a fallse construction put on Mr. Turnbull's statement. He did not say there was a fall. The system of ventitation at Coxiodge Colliery, in my opinion, is wrong in bringing the air on the lamps and have it return on the candles.—Mr. Foster: That is not the case.—Witness: I have told Mr. Johnson it was unsystematic to use naked candles so near the lamps. According to my idea, I would have a crossing to take the air from the cross-cut into the main return. I would not persever in using candies in any part of the pit workings.

Win. Hann: I live at Faverdon-square. I have been employed in Coxiodge Colliery two years past. I have been working lately in Gosforth drift. I am a deputy. I am aware of a small seam of coal lying above the main coal about two fathous, but the distance varies. I cannot say whether that scam extends to Leonard's cross-cut. I was an Gosforth drift when the explosion occurred. There were eleven here at the ime. Seven of them escaped. I went and found the men were all out, and then I xamined the place; I found one of the pillars was foul. After that the after-damp came. The ventilation was interrupted, and that caused the founiess I speak of.

The jury returned a verdict of "Accidental Death," and recommended the doing away with naked candles.

It appears that a goaf was being formed, the men having been engaged.

with naked candles.

It appears that a goaf was being formed, the men having been engaged three weeks in taking off pillars; but no great falls had, perhaps, taken place, although, according to the evidence of Short, it will be seen that the "goaf was working" that morning, the deputy being sent for in consequence; and he says also that "Bulman's bord had been falling all the morning," so that it does not seem very unlikely that the gas might come off from those falls, even if they did not extend more than 4 or 5 feet, as

off from those fails, even it they did not extend from those than 4 or o loss, as stated by some of the witnesses.

The state of the barometer has not been at all noticed in reference to this explosion. The weather, it must be noticed, was very exceptional for the season, it being extremely warm during the whole week. The barometer had not, however, fallen much during the week; it had, indeed, been very steady. The thermometer, on the contrary, had risen considerably.

REPORT FROM DERBYSHIRE, YORKSHIRE, AND LANCASHIRE.

MARCH 12.—The festivities in connection with the Royal Marriage have ompletely interrupted business transactions throughout the week. The emand for iron of good quality is increasing, and the augmented demand completely interrupted business transactions throughout the week. The demand for iron of good quality is increasing, and the augmented demand is felt sooner on account of the general lowness of stocks. Bars and plates are in good request, and in a short time a very considerable demand for rails is anticipated, owing to the probability there is of the construction of he may lines. Several projected lines now before Parliament are looked upon in a favourable light by the committee on railways, and a belief is entertained that fewer will be rejected this session than has been the case for some years past. The demand for railway springs is very active, and there is an increased enquiry for these articles. The armour-plate trade continues to be very active, and the public were treated on Tuesday with a sight of an armour-plate in the procession which pased through Sheffield. It was an object of great interest, and was one of the finest specimens of work turned out of the Atlas Works. The Steel Trade is on the move for the better, and we heart that the machinists generally are brisker, many orders being in hand for machines for the export trade. The Coal Trade has experienced a move for the better, and we heart that the machinists generally are brisker, many orders being in hand for machines for the export trade. The Coal Trade has experienced a move for the better, so far as regards demand for marine and locomotive purposes, but until the cotton trade assumes some activity we cannot hope for a good trade. The Derbyshire coal is increasing in favour sfor gas making, and we have had another contract for a large quantity for that purpose. The unfortunate accident at Clay Cross some time ago, by the inundation of one of the pile, will be well remembered. The company have now, however, succeeded in putting down an immense engine, which it is calculated will drain a large tract of mineral ground, and prevent the future posibility of such a caismity. This ponderous machine, which is now at work, was manufactured by the But

is looking better, and the opinion prevails that it will continue to improve. The other mines are doing tolerably well, but there is a lack of enterprise just now to bring them out. The local stock and share markets have been dull, and very little business done in any description of stocks. Money is more pientiful, but speculators operate very cautiously

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

March 12.—There is nothing new to be said about trade this week; in fact, it appears almost a violence to mention so hard matter-of-fact a subject amongst any assemblage of men, for all hearts are so brimming over with loyalty and chivalry, and thoughts of golden hair and ravishing smiles, and winning looks and graceful movements, Danish roses and Baltic with loyalty and chivalry, and thoughts of golden hair and ravishing smiles, and winning looks and graceful movements, Danish roses and Baltic pearls, that iron and coal, and such common matters, appear barbarous and repellant. So let it be said that nobody cared about doing anything particular this week, except getting up illuminations, bonfires, banners, and garland, treats for the old and the young, processions and other festivities; and people have not been able "to go to bed till morning;" and dining and dancing, and a general exaltation of sentiment; besides the exaltation which unbounded champagne, &c., occasions, are incompatible with discussion of such dull, dry subjects as the price of pigs, the demand for plates (some plates have been in great request), or the tightness of hoops (some of which, by the way, have collapsed). Suffice it to say, that there has not been very much done this week, and the inconvenience is less than it might be desired it should be.

The Black Country, as the coal field of South Staffordshire is called, and the Pottery district, have not come a whit behind the most quiet, clean, and ancient city in their ceiebration of the happy ovent accomplished on Tuesday; and this is only a real and natural expression of the hearty loyal feeling which pervades all classes at present. One event of the week happily links the feative events at which the nation has been rejoicing with those matters with which the MiningJournal more distinctly deals. On the day of the Royal marriage the High Sheriff for theyear, Mr. Thomas Bagnall, now Nowbarries-park, Hertfordshire, but until a year agea resident in South Staffordshire, and until a few years back a member of the eminent firm of John Bagnall and Sons, iron masters, entertained upwards of 1000 of his friends at breakfast, and rode in procession, followed by vehicles 270 in number, to Wolverhampton, whence he went by special train to Staffordshire to meet the Judges of Assizo. This is the third member of the iron trade who has been elected to t

REPORT FROM MONMOUTH AND SOUTH WALES.

MARCH 12.—There is a great divergence of opinion as regards the future of the Iron Trade. Some maintain that the large purchases made at the last quarterly meeting have not been of practical benefit to the trade, as a fallacious idea got abroad that a vast improvement was about taking place. The expectations then formed have not been realised to the extent antilast quarterly meeting have not been of practical benefit to the trade, as a fallacious idea got abroad that a vast improvement was about taking place. The expectations then formed have not been realised to the extent anticipated, and hence the slight dulness which has since taken place. Many others are of opinion that the improvement witnessed during the last four months is only the prelude to still better times, and present indications tend to confirm this view of the matter. In proof of this, it is only necessary that I should refer to the additional furnaces now in blast, as compared with what was the case 12 months ago. Although such an increase has taken place in the make, and the orders given out and accepted at the commencement of the quarter were unusually large, yet the froumasters are not badly off for orders even now at the close of the quarter, which augurs well for the next three months. The enquiries from the once United Statos are on the increase, and several cargoes have recently been shipped to northern ports. Whether the war continues or not, makers took for a larger trade with the Northern Statos, more especially if the Morrill tariff be modified, as expected. The mildness of the season will enable the arrive pening of the Bailut trade, which cannot fail to have a beneficial effect. Upon the whole, therefore, the prospects of the trade are encouraging, and hold out hopes that the predicted favourable future will be realised to a considerable extent.

The Coal Trade is gradually recovering from the late temporary depression, and the collieries are more regularly at work. The advance in freights, caused by the Scartiv of vessels, is still felt, and merchants find some difficulty in executing the orders in hand. As an instance of the advance in freights, it is only necessary to mention, as an example, that the rate to Plymouth has increased from 5s. 6d. to 7s., and 7s. 3d. If the present calm weather continues, however, a large number of ships are expected to arrive, and freights will, no doubt

and is highly commendable.

Mesars, W. J. Clapp and N. Coats, of Nant-y-Glo Ironworks, have just secured a matent for an improved principle of armour-plates, for vessels, turrets, targets, forts, and other structures in which armour-plates are or may be used.

THE SOUTH WALES SHIPPING PORTS.—There has been a good amount

THE SOUTH WALES SHIPPING PORTS.—There has been a good amount of business done in the various shipping ports of South Wales during the month of February, and from present appearances there appears every prospect that the exportation of iron, coals, and other mineral productions will increase rather than diminish. The American war has, of course, materially affected our commerce with the United States, but the large demand which exists for bars and rails from Spain, Italy, Portugal, France, and other continental states, goes a far way to counterbalance the loss of the American trade. Several important lines of railway have just been sanctioned on the Continent, and there is every probability, therefore, that the orders for railway iron will continue for some time to come.

CARDIFF.—Compared with the corresponding month of 1862 and 1861, the trade of this port for the past month of February was exceedingly active, and the exports far in advance of the average trade at this season of the year. Although there was a good consting trade done, the principal prosperity was in the foreign trade. From the statistical returns which have been published, we find that during the month of February (which it should be remembered was only 28 days) no less than 331 ships, described to the foreign ports, which vessels carried 116,890 tons of coal, and 3000 tons and 22,084 tons of iron; and for 1861, 174,334 tons coal, and 29,790 tons from. There is a large number of vessels still in the docks awaiting cargoes of coal and Iron, and during the first week of the present month there were upwards of 25,000 tons of coal, and 3000 tons of iron; and for 1861, 174,334 tons coal, and 29,790 tons from 1,500 tons of iron; and for 1861, 174,334 tons coal, and 29,790 tons from. There is a large number of vessels still

that interested parties among that the depression in the snipping trade is but temporary, and that trade is not so bad after all, but fagts and figures cannot be gainsaid. It cannot be delied that the indifference of the barbour authorities rendered necessary the removal of the contract with the Royal West India Mail Company, some few mouths ago, to Cardiff. Nor can it be disputed that the quarterly returns of the trade of the port show a gradual desiline in the foreign trade. Newport still enjoys a good coasting trade, but we say again its foreign trade is on the wane, and, suless active steps are specifly adopted, its merchants, shippers, and shopkeepers will have to lament and deplore still less prospersous times.

but we say again its loring trade is on the wane, and, unless active steps are speedily adopted, its merchants, shippers, and shopkeepers will have to isament and deplore still less prosperous times.

SWANSEA.—The trade of this port still continues flourishing, so much so that the Vale of Neath Railway Company have recently completed two more large and powerful coal drope in the South Docks, and is in a very forward state, and will be ready for work in a few more weeks. The harbour trustees are also erecting a powerful ron ore hoist at the South Docks, in order to meet the requirements of the large iron certained which is rapidly springing up in the port. The usual monthly meeting of the trustees of the harbour was held in the Council Chamber, on Monday last, when the statistical returns of the trade of the past month of Feb. were produced. From these returns we find that the total number of ships entering the port tor the past month was 397, with an aggregate registered tonnage of 31,885 tons, and the total shipping rates received 15101. 5s. 1d. Classified, the trade consisted of the following:—Coasting ships, 212, with an aggregate tonnage of 48,852 tons; European, 158 vessels, of 21,980 tons, and foreign 27 vessels, of 11,085 tons. During the corresponding month of 1862 the number of vessels entering the port was 466, with an aggregate tonnage of 32,254, and the shipping rates 12611. 12s. 9d. These consisted of 228 ships, with an aggregate tonnage of 19,121, engaged in the coasting trade; 211 ships of 28,391 tons European, and 27 ships, of 3142 tons, foreign trade. There has thus been a slight decrease upon the past month, as compared with Feb., 1862, in the number of ships and tonnage, but an increase of about 2500. In the shipping receipts. This arises from the fact that the vessels requesting the port for the past month were of much larger tonnage than in Feb., 1862. The whole, therefore, the trade of the month was stated by the harbour trusces as satisfactor; and when the direct Swansea and Neath narrow

Tuesday, and this line, when complete, will open up to the sea a large coal district, which hitherto has been, comparatively speaking, useless and unworked; and thus Swamsea has every prospect of doing a much larger amount of trade than formerly.

NEATH.—The official returns of the trade of this port for the past month have not yet come to hand, but, from the enquiries made, there is no doubt but that quite an average trade has been done. Since the opening of the Briton Ferry Docks a progressive trade has resulted, and there can be no doubt but that the shipping trade of Neath will materially increase consequent upon the additional railway facilities which are about being made, and which will develope the mineral resources of the district.

LLANELLY.—This port has done a good business, both foreign and coastwise, during the past month. There are many elements of increased presperity in connection with this port, and the merchants transacting business here are most sanguing as to the state of trade in the future.

TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING.

TRUTH'S ECHOES, OR SAYINGS AND DOINGS IN MINING.

The general holidays consequent on the reception of Her Royal Highness the Frincess Alexandra in the City on Saturday, and that of Tuesday list, when the marriage of His Royal Highness the Prince of Waise with the Princess was solemnised, created as the suspension in the Mining Share Market; in fact, so much has the public shied at the Mining Share Market; in fact, so much has the public shied at the Mining Share Market; in fact, so much has the public shied at the Mining Share Market; in fact, so much has the public shied to the Mining Share Market; in fact, so much has the public shied to the Mining Share Market; in fact, so much has the public shied to the Mining Share Market; in fact, so much has the public shied to the Mining Share Market; in fact, so much has the public shied to the Mining Share Market Mining Mining

culties they have had to contend with, and their energy and perseverance are likely to be well remunerated.

East Therefrend is very little change has taken place since last noticed. The 55 cast continues to look very encouraging. The winze has been disordered, but will no doubt resume its character as soon as passed the course. The 46 cross-cut north has not yet intersected the lode.—South Cann Birks: The new lode intersected by the 68 cross-cut has been opened upon, and found worth 401, per fim. for tin. The stopes in the 68 are valued at 301, per fim. Other places continue the same.

East Rosewarks: The lode in the bottom level west is split at present, but is expected to unite again shortly. The south part is worth from 91, to 101, per fathom. The 55 west has improved, and worth 201, per fathom. The two stopes and western winze in this level are worth together full 801, per fathom. The 111 tons of copper ore sold on Thursday realised 10081, which will give a profit of nearly 2001, for the two months' working.

winze in this level are worth together full \$60t, per fathom. The 111 tons of copper ore sold on Thursday realised 1008t, which will give a profit of nearly 200t. for the two months' working.

Wheal Serox has recently failed in some important places, whilst others show Indications of improvement. The sump-winze is reported worth 30t. per fathom, and not looking so cheering. The south winze is valued at 7t. per fathom, and at present less encouraging. The 140 end east is worth 30t. per fm., and presents many pleasing in new ground. The lode in the 140 west is poor. The stopes in the end of the south winze have also declined in value. The 50 cross-cut continues dry, consequently are yet some distance from the lode. They are about to resume sinking a winze just above the 50 cross-cut, on a lode valued at 50t, per fm.; preparatory to sinking, a few days will be required to clear up the winze, where a quantity of rubbish has been deposited. St. Just United The Progress which is being made in the formation of this company is more than anticipated, the applications for shares far exceeding the most sangule expectations. The operations at the mine are most encouraging both at surface and underground, for whilst preparations are making for dressing the produce aufficient is reported to have been laid open to keep the stamps going for a length of time. There is no doubt that the numerous and well-known lodes are quite capable of returning large quantities of tin without the aid of expensive or powerful machinery.—Grazar Laxex (Limited): The operations are going on most satisfactory and encouraging to the proprietors, and from the large discoveries already made, and the achievement of the most important points laid down in the prospectus when the present company was established, are features in the management of more than ordinary character. According to the official report of this week there is little doubt of this becoming one of the great leading lead and copper mines of Britain.

From Mr. Las Crours:—The Ottensura Cop

From Mr. Jas. Crofts:—The Quebrada Copper Minis of Britain.

From Mr. Jas. Crofts:—The Quebrada Copper Minis Company, (Company, Company, Company), the public, and now stand at 50s, paid. Owing chiefly to a Law 20s, per share, besides the deposits, which has proved onerous to some parties, the stock went to a discount of nearly 20s, from which (the shares in question having been absorbed) they have railied to 10s. discount, and large investments made in them. The last West India mail has, it now appears, brought highly encouraging accounts from the property—an immense deposit of copper, rich in quality, being fully condrined, resolving the practical part of the business simply into a question of the means of conveying the ore to the port of shipment some 30 or 40 miles distant. The engineer accordingly reports that a light tramway is all that is required to get over the present mule tract of ground to meet the river, every kind of engineering obstacle being non-existent. The same party, in private letters, reports upon the brilliant nature of the mines and their prospects, and it thus follows that time, still, and energy are only wanting to make the fortness of some and to earlied others of the shareholders, the few shares in which the concern is constituted offering an excellent basis for confidence on the part of the investing public. To divest these remarks, however, of the element couleur de rose, it must be stated that, as another call is due next month, probably of 20s, per share, it may be prudent to waits the result in its action upon the market price of the share, it may be prudent to waits the result in its action upon the market price of the shares.

tuted offering an excellent basis for condidence on the part of the investing public. To divest these remarks, however, of the element condust of cross, it must be stated that, as another call is due next month, probably of 20s. per share, it may be prudent to wait the result in its action upon the market price of the shares.

The writer continues to watch with some interest the Central Minera shares, on which it will have been noticed that the reports from the management have been in demand, and advancing in value so marked that, of course, some cage exists. This mine is situated towards the north of the Minera Mine, but between, and abutting in its boundary on each, is another sett, worked by a private company, called the Union Minera, in which there is an improvement, and hence, the Union lodes running into the Central, the demand for the latter shares, and but few, if any, being on offer, the writer hopes his predictions as to the success of this mine at no very distant period is assured.

In miscellaneous matters, OKEL Ton advances to success. The next meeting in the 65 s. per share, and the latest report from the purser (2d inst.) states—"In the 80, back of the lode greatly improved. The north lode a very large one in the 65, and sundry pitches turning out very good ore, whilst the 50 is yielding 5 tons of copper to the fathom." There has been some rather large transactions in the shares this and last week. Wast Pan Consons progresses well, and promises to become a fratrate adventure; shares still cheap, attributable, perhaps, to their being 19,000, but militaring the amount of calls when wanted. Tin also is advancing in value. Another mine in Mr. J. R. Murchison's office is also well worth attention—Transmalle. In 800 shares of 51, paid—in the established copper district of Redruth. It may prove interesting to note that under the name of Univer Hills the late Prince Concort (it being 19,000, but militaring to note that under the name of Univer Hills the late Prince Concort (it being a Duchy mines of the

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deeper development, and we are confirmed in this by the fact that our neighbours on the Carnimeal lode, 20 isthoms west of our boundary, have a pitch working on tribute at 4s. in 11s., the matrix of the lode inventh place being precisely of the same character." It is also be the confirmed in the concern is to reach the Carnimeal lode, in Great have been deaded that the great point in this concern is to reach the Carnimeal lode, in Great where and an authority reports to the writer that it may be 20 or 30 fathoms. Wheal Fortune; and an authority reports to the writer that it may be 20 or 30 fathoms. Wheal Fortune; and an authority reports to the writer that it may be 20 or 30 fathoms. Advances have taken place in East. Basser, North Rowers, Wheal Ludoott, and East Risser. The shares being very low in price are, therefore, worth attention, more particularly from present holders at higher rates. Last report, much improved.

Advances have taken place is East. Basser, North Rowers, Wheal Ludoott, and East Risser. This last mine is surely progressing towards such success as may under a large advance. The control that the three fluctuations either way may be looked for, and unwise will be holders who neglect the opportunity to realise shy mine share at a large advance. The control advance, on the other hand, may be demonstrated as perfectly legitimate—the in lodes exhibiting wonderful success; be sides which it is reported (expartly) that Coot's Kitcolers, which adjoins Theoroft, have encreached in their bottom levels upon their neighbours boundary to the extent of 2000l. worth of ore. Of Illodan, as the newly-installed co-partner of Tincroft, it may be premised that its prospects, arising out of these circamsiances, are very much improved, as shown by the great demand for, and advance in, the shares. The management of this mine, with a view to enlighten the public on its exact position in the midst of some of the mean not not be of the Cornish dividend mines, have issued an exection to contrast with the want of maps

the late discovers' united considered important. North Dologath improved. East Carn Brea lower. Where the latinities in the market, and an indifference to dealings, probably arising from a sort of lassitude after the late public excitoment in which all Great Britain has participated.

From Mr. Edward Dooke:—The market has been very good all the week, and a large amount of business has been done, both in dividend and progressive mines. Fluctuations have taken place to a great extent in several mines, including the property of the propert

MINING NOTABILIA.

MINING NOTABILIA.

[EXTRACTS FROM OUR CORRESPONDENCE.]

CORNUBIA last week sold one month's tin, 5 tons 14 cwts. 1 qr. 25 lbs., at 69f. 10s. per ton—39ff. 15s. 10d.—very nearly paying cost. Four large lodes are being worked upon within 20 fms. from north to south. The reserves underground are, to use the works of Capt. Chas. Thomas, "very extensive, and can be worked own at a cheap rate." On sinking the fiat-rod shaft a fine lode has been discovered, 6 ft. wide, and improving as they go down between the 66 and 70 fm. levels. Thirty-two additional heads of steam-stamps will soon be at work, bringing the number up to 70, when the returns will be more than double, at little extra cost, and good profit made. This fine properly must soon take a prominent place among the large tin mines of this county.

BASSET AND GRYLLS, WENDRON CONSOLS, AND NEW WENDRON.—The improving condition of these mines is causing some excitement in the neighbourhood. It is expected the next quarterly dividend from Basset and Grylls will be 30s.; and at Wendron Consols increased returns, it is fully expected, will admit of dividends being shortly resumed. New Wendron is a mine adjoining these, and possesses great interests; good improvements are also reported here.

ANGLESEA.—At last it appears that this island is to be done justice to by mining men. In various paris north of the Great Parys, explorations are going on, and lodes of great promise being laid open, which are traced for miles in extent. These being intersected by the same cross-courses as the Great Parys, corry probability exists that many valuable courses of ore will be opened up. The facilities of diriving deep adits from the sea level upon the outcrops of the lodes into the high hills and cliffs, reduce the cost of exploring to one-half of what is usual. In one place, between Amiweh and Buil Bay, rich stones of copper and sliver-lead are produced from a vein several feet wide, in good clay-slate. "Monas" letters, or something else, have stirred up mining speculators, and awaken

gives evidence of a splendid lode at the depth; two cross-cuts are now being driven to cut this lode, one at the 50 fm. level, elready through the elvan, and very near the lode, and one at a shallower level.

CALV: **shack is looking exceedingly well, and sold 10 tons of tin this week for the **shack is looking exceedingly well, and sold 10 tons of tin this week for the **shack is looking exceedingly well, and sold 10 tons of tin this week for the **shack is looking exceedingly well, and sold 10 tons of tin this week for the **shack is looking exceedingly well, and sold 10 tons of tin this week for the **shack is looking exceedingly well, and sold 10 tons of the horizontal thin a short distance of Oughterard, in the county of Galway. The country consists of granite, enclass, hornblende, mice-slate, quartzite, and primary limestone. Mr. T. C. Gregory, C. E., of Glasgow, has examined the property, and states that the lode seems to be an important one for the deposit of lead, and he thinks it would be a pity to see it remain unexplored. Captain Peter Floyd reports that as a mineral property he can highly recommend it to any parties speculating in mines, as there is more than one lode, and they are crossing each other. In all cases of mining, where the lodes form a junction, large deposits of mineral have been found, and it is very probable that it will be so in this mine. The main lode runs east and west, and varies in width from 10 to 20 feet, and is composed of clay, pyrites, and quartz. In all lime rock, the caunter lode runs north and south; and where the lodes come in contact large deposits of lend will be found. There is no doubt as to the probability of its making a good mine if it were worked in a systematic manner. Mr. Thomas Struthers, the vice-president of the Glasgow Geological Society, states that the specimens of lead and copper ores from Cloosingereen exhibited there were very much admired, and of excellent quality.

Geological Society, states that the specimens of lead and copper ores from Clooshgereen exhibited there were very much admired, and of excellent quality.

WHEAL GRENVILLE.—Several important improvements are expected in this mine very shortly, as, in addition to the rapid approach of the 129 to the ore ground, it is expected that the West Basset lode will soon be cut in the sett. Other lodes are also likely to be met with very shortly.

EAST JANE.—They have cut the lode in the 14 at two points, north and south of the shaft; lode 4 ft. wide, and of good value at each point. A sale of 30 tons of ore was made on the 9th inst.

EAST Waters (Seventhern Seventhern Seven

EAST JANE.—They have cut the lode in the 14 fit two points, including south of the shaft; lode 4 ft. wide, and of good value at each point. A sale of 30 tons of ore was made on the 9th inst.

EAST WHEAL GRENVILLE has excellent prospects, and is one of the most promising young mines in the Camborne district; its position—being situated between South Wheal Frances and Wheal Grenville—renders success as almost certain. In the 55 cast the lode is 3 feet wide, and worth fully 1 ton of good copper ore per dathom. In all probability a great improvement may take place shortly, as the lode presents precisely the same characteristics as the rich lodes of the neighbouring mines. The tin department looks well, and the next sale will be about 8 tons of that ore. A cross-cut is being driven north from the 45 to intersect the same lode that will be opened in the 80 cross-cut at Wheal Grenville.

ILLOGAN MINES.—Operations are going on here very favourably, and the engine will shortly be set to work.

THE PERROEE LEAD MINES.—An interesting discovery, likely to lead to important results, and be the means of giving employment to many of the inhabitants of Porthleven and its neighbourhood, has recently been made at the above mines by Mr. John Hunt, late director and a large proprietor of extensive lead-works in France. Both for the abundance and high quality of theores, the Penrose lead district has at various periode occupied a prominent position, but at no period of the working of the mines have the carbonates and phosphates, which exist in considerable quantities, been appreciated for their commercial value. Mr. Hunt having obtained a grant from Mr. J. J. Regers, M.P., to work what appeared to have been neglected above the addities being followed up, revealed the existence of a side idode, running nearly parallel to the old workings, and only 3 or 4 fathoms from them. Nearly one-quarter part of the ore now

being extracted from this discovery consists of carbonate of lead, the remainder being the ordinary sulphide, rich in silver, the ores altogether realising above 15t, per ton. This important discovery by a stranger to the district afords a striking illustration of the justice of Prof. Hunt's views regarding the necessity of imparting to the miners of our county a better knowledge of the requirements of their profession. Had the smaggra and miners been better acquainted with mineralogy, Wheal Punrose would not have been abandoned with, perhaps, its most important feature undeveloped. With the characteristic liberality of his familty, Mr. Rogers has granted the sett at 1-20th dues; and this, combined with many other favourable circumstances, will, doubtless, encourage Mr. Hunt and his friends to prosecute the works with vigour, both to their own and the public advantage.

St. JUST CONSOLS.—I am glad to notice that the shares are rapidly being applied for, and as the flat is so fast filling up, shares will soon be alloted. The mine is in a good th district, and well worthy the attention of capitalists for a safe and sure investment.

GOUROCK SANDSTONE COPPER MINE.—In prosecuting the works here, some most extraordinary deposits have been developed. Copper of surpassing richness has been met with, not in isolated or occasional patches, but as pientifully as currants class property but unanimity in council, which necessary element has not prevailed from the very outset; it is to be hoped, and it is believed, measures will shortly be adopted to realise so great a dealderatum.

COOLAPTRA AND BOND MINES.—In the Journal of last week an error was made in reference to the engine recently purchased for these mines. It must be obvious, however, that in speaking of its removal the works 'old situation' must be incorrect. The engine has never been anywhere but at the Manchester Corporation's Waterworks. The contract for its removal has been entered into, previous to which it will undergo a minute and thorough examination by fi

NANT-Y-IAGO is opening out remarkably well. The 20 is being extended NANT-Y-IAGO is opening out remarkably well. The 20 is being extended both east and west in a very fine course of ore, producing not only lead in large quantities, but silver-blende of a very rich character. An important feature in this mine, and one which should not be overlooked, is the fact that in driving the 10 a fine slickenside was discovered. This, it is well known, is an infallible indication of large unineral deposits in depth. In the opinion of eminent practical miners, it is almost an absolute certainty that this mine will be one of the richest in the Principality. Many mines in Cornwall, with not one tithe of the present richest or future prospects of Nanty-Jago, are seiling for 20,0001, 30,00001.

At WEST WHEAL TREVELYAN the flat-rods are completed at Charles's

mines in Cornwall, with not one lithe of the present richest or future prospects of Nanty-lago, are seiling for 20,0001, 30,0001, and 40,0001.

At West Wheal Trevelvan the flat-rods are completed at Charles's
shaft, and sinking will now be resumed. The lode in the 58 west is worth 71. per fan,
and the prospect of a good course of ore at no great distance is extremely favourable.
Two winzes are about to be sunk—one in the 48, and the other in the 58; and as both
will go down in a run of ore ground the future samplings it is confidently expected will
materially increase.

At New Wheal Prospidnick the operations are being vigorously pushed
forward, and the prospects are of a very encouraging character. The lode in Watson's
shaft improves in depth, and in the 30 fm. level cast and west the lode is also looking
better. A cross-cut is being driven south from this level, to intersect another lode,
which will be reached in about two months' time. The new shaft, to prove Wiison's
lode, in the western part of the sett, is going down in a favourable channel of ground,
and the lode will be reached 16 fms. deep in about isx or eight weeks. This lode, where
opened upon at surface, is 4 ft. wide, and worth 1 cwt. 1 qr. of tin per 100 sacks. It is
expected the first sale of tin will be 6 tons.

Mining in thie West or Irretand.—It is satisfactory to learn that
the mines in the West are assuming a more lively aspect. The great change that has
taken place in the bottom of both the Great Cappagh and Bailycummisk Mines (both
on the lands of Mr. T. Saunders Cave) is likely to throw fresh vigour in mining in this
much-neglected part of the country. A great improvement has also taken place at
the Gurtavallig Mine, where they have met with a rich bunch of yellow copper ore; it
is also reported that the Ballydehob Mine is about to resume working with great
vigour at the earliest period. The Bandon Barytes Mine is raising a great quantity of
barytes, and the Roaring Water and Crookhaven Mines are looking very promising.

New Croow Hill

in the locality.

Near Devon Great Consols a great discovery has been made in the West Manta AND Fontescue Mins: a lode having been discovered with a fine back of splendid gossan, very similar to what the Devon Great Consols lode produced when first discovered. The lode in the 15 fathom level is 18 feet wide, producing about 4 tons of ore per fathom, and the same quantity of sulphur and mundle: a finer lode cannot be seen, and will vie with its rich neighbour—Devon Great Consols. There is a 35-inch pumping—engine and a drawing—engine arready on the mine. The neighbourhood will be much benefited by the employment of a large number of men, in consequence of this very valuable discovery.

be much benefited by the employment of a large number or men, in consequence or this very valuable discovery.

NORTH DEVON.—It is quite clear that the main part of the middle lode has been missed, the add it evel having been driven on what now appears to have been only a branch of the lode, but running nearly parallel with it, and at a distance of only 4 or 5 fathoms from it, so that the main part of the lode is now found to be standing whole from surface, almost close to the old levels, and it can, consequently, be cut at each level in a short time, and at trilling expense. This important discovery has been made by sinking on the course of the lode, from the adit to about 10 fm. below the 10 fm, level. The ground is found to be over throughout, the winze in places yielding 3 tons of ore per fathom. I hope to eath the same shoot of ore at the 20 fm, level in the course of 2 or 3 fms, more driving. I shall have 20 tons of ore sampled ready for sale in a week or two.

sale in a week or two.

WHEAL POLMEAR is looking well in several points; but the most important one is on the old Gevan's lode, east of the Crocket lode, which is in entire new ground. This lode could not be found to the east of the Crocket lode until recently, when it was discovered in the adit, and there is a cross-cut at the 15 fm. level, which will be under the course of ore. The lode will be cut in a few days; if cut sood there is a new and valuable mine to the east of the other workings: 205 tons will be sampled this week.

is a new and valuable mine to the east of the other workings: 205 tons will be sampled this week.

The Prn-Y-Clyn Mine has for some time been regularly progressing in its operations. A perpendicular shaft has been sunk from surface 17 fathoms to the shallow adit and thence 18 fathoms to the deep adit, and to botton level 30 fms., and then below 12 fms.; in all 77 fathoms, of the dimension 9 ft. by 6, of which 33 fms. were accomplished in five months. This mine, in its last working, made very considerable returns of lead ore and profit, the workings then being to the west of the gritstone band. The present company have pitched the shaft to the east, and in driving the 30, the agent reports—"Feb. 12: Driven last month 10 fms. 4 ft. 6 in., at 55s. I am happy to inform you that the lode is improved since I wrote you last, and is producing saving work, about 4 evits, per fm., and I hope to see a further improvement. The engine, lifts, &c., are all progressing towards completion.—Feb. 21: The lode in the 30, towards the old mine, is improving, it is now worth 1 ton of lead ore per fm.—Feb. 27: We havehad a run from the old mine in our deep adit; it will take some time to clear. The 30 fm. level is driven 3½ fms. In the last fortnight; the lode at present is worth from 12 to 14 ewis. of ore per fathom. It is expected when the old workings are reached, which will be not over six months, that this adventure will prove a success. The direction of the workings is under the supervision of Mr. Jehu Hitchins.

THE EXPLOSION AT COXLODGE COLLIERY—TWENTY LIVES LOST—
(From a Correspondent).—Another twenty lives have been sacrificed by an explosion of fire-damp, yet the result of the coroner's inquest is, as usual, a verdict of "Accidental Death;" the officers and workmen (with one exception) in the colliery swearing that the ventilation was so good that they were laid up with colds; that the mine was as clear as Newcastle Moor, and that the working places were quite as comfortable as at surface. It would be of great importance to the colliers if Mr. Thomas Emmerson Forster would state what he considers the proper mode of ventilating a colliery; for wherever there has been a particularly calamitous explosion, he has declared that he would recommend the same system of working to be pursued as before. He expressed this opinion at the Burradon inquest (it should be stated that both Burradon and Coxlodge are worked by Mr. Bower), at the Walker inquest, and now again at the Coxlodge. Now, it certainly seems marvellous, that if a mine be perfectly sweet, clean, and free from gas, that an explosion should occur sufficiently powerful to launch twenty of our fellow-creatures into eternity, though Mr. Forster may have studied the chemistry of gases so deeply as to be enabled to account for these apparently contradictory circumbanees. The fact is that Mr. Dunn being the oldest, though by no me ans the least active and competent, the hope is entertained that there is an opportunity of securing the removal of a stringent and experienced official, and, perhaps, of creating a vacancy for some influential aspirant more in the interest of the masters. Although we do not say that the juve, in the Coxlodge case securing the removal of a stringent and experienced official, and, perhaps, of creating a vacancy for some influential aspirant more in the interest of the masters. Although we do not say that the jury, in the Coxlodge case, would have been justified in finding anyone guilty of manslaughter, there was nothing to justify them in exonerating the officials from all blame. Mr. Maddison, the head viewer at Coxlodge and Burradon, admits that they were making a goaf less than 50 yards from where the pit fired, and he also admits that the air passing through this goaf (for we call it so, notwithstanding Mr. Maddison's wish that it should not be so designated until larger) went directly on to the naked lights, though where they were making the goaf lamps were used, yet Mr. Forster states that the air did not come from the lamps to the candles. John Collinson, of Kenton, coal hewer, called at the request of Mr. Dunn, had been 26 years employed in the colliery, and was employed there now. He wished to say that a false construction was put upon Turnbull's evidence. He did not say there was a fall. Witness thought the system of conducting the air was wrong. He thought it wrong to have the air first coming on the lamps and then the candles. He recommended a crossing to take the air a different course. Witness made several suggestions for the changing of the ventilation. He considered it unsystematic to have candles and lamps so near together. The amount of aid which the Government Inspectors receive from the

coroners in the colliery districts may be judged of by the fact that in the present case the coroner, Mr. Stephen Reed, permitted (after remarking that they had it on oath that there was sufficient air) Mr. Forster to ask Mr. Dunn why he was not down the pit before the explosion? and how many collieries he went down in a year? Yet all must well know that had there been sufficient air the explosion could not have occurred; that the questions put to Mr. Dunn should only have been put to him by the Secretary of State or the House of Commons. It is much to be hoped that the result of the Whitehaven and the Coxlodge cases will be to prove to our legislators that far more stringent enactments than those now in force must be made to prevent the fearful and unnecessary loss of life in collieries, arising from the false economy of the coalowners, and the facilities open to them for evading the law.

EXCAVATING AND BORING APPARATUS .- Mr. A. Tronillet, of Xertigny, EXCAVATING AND BORING APPARATUS.—Mr. A. Trouillet, of Xertigny, has invented an improved instrument, by which the bottom of a hole may be enlarged. A hollow tube passes down the hole originally bored, and through this a horizontal tool is passed; the lower part of the tube is pierced with a rectangular hole for the passage of the tool, and strengthened by two segments with parallel cords, between which sildes the base of the rod. These segments are slightly notched or grooved where the tool is seated, so as to guide it quite horizontally. The excavated material fails by an opening of the tabe, lengthwise with the hole. Motion is given to the toolby the pressure of the lower part of the rod, and a tongue gives it a retrograde motion.

lower part of the rod, and a tongue gives it a retrograde motion.

IMPROVED FORCE-PUMP.—Mr. F. Escapat, of Paris, has provisionally specified an improved pump, which may be used to raise a large body of water either for drainage or irrigation, as a fire-engine (by fitting injection pipes on to each cylinder or pump barrel), and for many other purposes. It is available wherever steam power is at hand by fitting a connecting pipe to the generator. One workman to feed the fire and the boiler is all the manual labour required, the valves and cocks opening and shutting by means of a float with greater regularity and precision than could be done by the most skilful mechanic. The invention appears to consist essentially in applying the steam to one side of a piston, which forces forward the water with the other side.

one side of a piston, which forces forward the water with the other side.

STEAM-HAMMERS.—An invention has been provisionally specified by Mr. J. O. Butler, of the Kirkstall Forge Company, Leeds, for improvements in steam-hammers; it relates to the framing or supporting standards, which he makes of wrought-iron instead, some cases a single piece of wrought-iron is used, and forged to shape, and for large hammers the standards are composed of several wrought-iron plates rivetted togother, and strengthened by angle, T, or other suitably shaped bars, as is well known in the making of wrought-iron structures.

The Annual Review of Mining, containing official returns for the year from about 200 mines, and a vast amount of interesting information, valuable to investors and speculators, is now ready, and can be had (price 1s.) of Messrs. Watson and Cuell, St. Michael's-alley, Cornhill; at the Mining Journal office, 26, Fleet-street, E.C.; or of any bookseller or newsman.

India Office.

DY ORDER OF THE SECRETARY OF STATE FOR INDIA
IN COUNCIL, notice is hereby given that the DIRECTOR-GENERAL OF
STORES FOR INDIA will be READY, on or before MONDAY, the 16th instant, to
RECEIVE PROPOSALS in writing, scaled up, from such persons as may be willing to
SUPPLY—
ONE HUNDRED TONS OF PIG IRON.
And that the conditions of the said contract may be had on application at the India
Store Office, Cannon-row, Westminster, where the proposals are to be left any time before Two o'clock P.M. of the said 16th day of March, 1863, after which hour no tender
will be received.

GERALD C. TALBOT, Director-General.
India Office, March 2, 1863.

Peruvian Consulate.

PROPOSALS are REQUESTED for a CONTRACT to be entered PROPOSALS are REQUESTED for a CONTRACT to be entered into for the DRIVING an ADIT or TUNNEL in the MINERAL DISTRICT of the CERRO DE PASCO, in PERU, for the PURPOSE of DRAINING the SILVER MINES of WATER, or for the ACCOMPLISHMENT of the SAME OBJECT through the MEANS of PUMPING by STEAM POWER.

Reliable surveys and plans of the ground may be inspected at this Consulate, where also the conditions and terms of the undertaking can be treated of with the Commissioner of the Corporation of Miners, who is authorised by the Peruvian Government to grant its guarantee for the fulfilment of the terms.

HENRY KENDALL, Consul for Peru.

Peruvian Consulate, No. 11, New Broad-street, E.C., February 24, 1863.

OUTH-EASTERN BAILWAY—CONTRACT FOR THE SUPPLY OF STORES FROM MARCH 31, 1863, TO SEPT. 30, 1863.—The Directors are PREPARED to RECEIVE TENDERS for the SUPPLY of the UNDERMENTIONED STORES, viz.;—

Directors are PREPAIRD to RECEIVE TENDERS for the SUPPLY of the CARDINAL MENTIONED STORES, viz.:—
No. of Contract.
1.—TURPENTINE, SOAPS, &c.
2.—IRON, AXLES, TYRES, FORGINGS, &c.
3.—GENERAL IRONMONGERY, TOOLS, &c.
4.—FILES, STEEL, SPRINGS, &c.
5.—SHEET BRASS, BRASS & COPPER TUBES, FINISHED BRASS WORK, &c.
6.—TIN, TIN WORK, LEAD, ZINC, and OTHER METALS.
7.—GLASS, LAMPS, and LAMP MATERIALS.
8.—VARNISH, PAINT, DRYSATZERY, &c.
9.—ROPES, CANVAS, BAGS, FELT, &c.
10.—COACH TRIMMINGS, CARPETING, CLOTH, HORE-HAIR, TOWELLING, &c.
11.—LEATHER, HOSE PIPES, STRAPS, &c.
12.—BRUSHES, BROOMS, MATS, &c.
13.—WOOD-WORK.
14.—SUNDRIES.
Specifications and forms of tender may be had on application, in writing, to the Store-keeper, London Bridge Terminus.
Forms of tender for each contract are printed separately, and parties applying should state the particular contract for which they propose to tender.
Patterns may be inspected on and after the 14th inst., at the Stores Office, Bricklayer's Arms station, between the hours of Ten AM. and Four P.M.; and any further information required may be obtained at the Storekeeper's Office, London Bridge Terminus.
Tenders to be returned on or before the 25th inst., endorsed "Tender for Stores," addressed to the Secretary, London Bridge Terminus.

Tenders to be returned on or before the 25th inst., endorsed "Tender for Stores," addressed to the Secretary, London Bridge Terminus.

Rondon Bridge Terminus, March 6, 1863.

TO ENGINEERS AND OTHERS.—TENDERS WANTED for ONE HUNDRED FEET of BORING THROUGH CLAY, with the INSERTION of a BORE PIPE, from the bottom of an excavated well in Northampton. The price to include pipes.—Full particulars given on application to C. IEESON, Eaq., Northampton. Estimates wanted by the 21st March next.

TO MINING COMPANIES.—WANTED by the ADVERTISER, who is a THOROUGHLY PRACTICAL MINE AGENT, a SITUATION, either at home or abroad. Can be well recommended by late employers.—Address, "H. A.," MINING JOURNAL office, 26, Fleet-street, London, E.C. TO COAL AND IRONMASTERS.—One of perfect respectability, and of 30 years' experience in the MANAGEMENT of COAL and IRONWORKS for leading parties in several districts, having "won" more seams and creeted more tronworks than any other man, is OPEN to EMPLOY.—Address, "T. B.," 3, Bankstreet, Sheffield.

MINING IN IRELAND.—The PROPRIETOR of the CLOOSHGEREEN LEAD MINE, which has been partially developed, and in which a good face of lead has been discovered and is now visible, is DISPOSED to TREAT for the SALE or LETTING of the PROPERTY.—For particulars, address A. M. Kelly, Cloosh House, Oughterard, Galway.

TREATMENT OF SILVER-LEAD ORES AND SLAGS.—
The DISCOVERER of a MEANS by which an INDUSTRIAL PROCESS, NOW TEDIOUS and EXPENSIVE, can be RAPIDLY and ECONOMICALLY PERFORMED, DESIRES to MEET with a CAPITALIST to ASSIST him in INTRODUCING and DEVELOPING the INVENTION. Liberal terms will be offered.—
Address, "Plumbum," Mining Journal office, 26, Fleet-street, London, E.C.

NICKEL AND COBALT REFINING, AND GERMAN SILVER WORKS, 16, OOZELL STREET NORTH, BIRMINGHAM.

STEPHEN BARKER bogs to inform the Trade that he has the following articles for sale:

REFINED METALLIC NICKEL. | OXIDE OF COBALT.

REFINED METALLIC BISMUTH. | GERMAN SILVER—IN INGOTS, SHEET NICKEL AND COBALT JRES PURCHASED.

HILL, COBALT, NICKEL, COLOUR, BORAX, AND CHEMICAL WORKS,

NEAR STOKE-UPON-TRENT, STAFFORDSHIRE,
JOHN HENSHALL WILLIAMSON, MANUFACTURER AND REFINER.

Reference.—Professor Miller, King's College, London. U

OUVELLE MONTAGNE COMPANY.—The ANNUAL GENERAL MEETING of shareholders will be HELD on MONDAY, the 20th April next, at the offices of the company, at Engis, near Liege, at Half-past Eleven a.m. VICTOR SIMON, Le Directeur Generale de la Société.

THE NORTH POOL MINING COMPANY.—
The following circular has been issued to the shareholders:—
TO THE SHAREHOLDERS IN THE NORTH POOL MINING COMPANY.

I beg to inform you that a GENERAL MEETING of shareholders in the above company will be HOLDEN, at these offices, on MONDAY, the 23d day of March list., at One o clock precisely, when the favour of your attendance is requested.

Important resolutions are regard the future conduct and working of the company's property will be submitted, discussed, and, I trust, unanimously adopted.

I am, Sir, yours faithfully,
13, Cornhill, London, E.C., March 11, 1863.

J. W. WATSON, Sec.

THE DIRECTORS of the ST. JUST UNITED TIN AND COPPER MINING COMPANY (LIMITED), having observed in the Mining an almost identical title with that of their own, with the same bankers, another, executive, officers at the mine, &c., think it proper to NOTIFY that they, the directors of the St. Just United Tin and Copper Mining Company (Limited), have NO CONNECTION whatsoever, DIRECTLY or INDIRECTLY, with the COMPANY ADVERTISING UNDER the NAME of the St. Just Consols Mining Company (Limited), have NO CONNECTION whatsoever, DIRECTLY or INDIRECTLY, with the COMPANY ADVERTISING UNDER the NAME of the ST. JUST CONSOLS MINING COMPANY (LIMITED).

By order of the Board,

5, Warnford-court, March 4, 1863.

CREAT NORTHERN COPPER MINING COMPANY
OF SOUTH AUSTRALIA (LIMITED).—In pursuance of a resolution passed
at a meeting of the dissentient shareholders in this undertaking, held on Thursday, the
5th inst., the committee of investigation have taken counsely opinion, which is to the
effect that the proceedings of the Chairman at the general meeting, held on the same day,
were irregular; and the committee, in consequence, formally protested against the poil
announced to take place on Monday, the 9th inst. The dissentient proprietors abstained
from voting almost to a man.
It is in contemplation to convene an early meeting of the shareholders, to explain to
them fully the past and present position of the directors and manager with regard to the
shares of the company, and to suggest certain alterations in the management thereof.
And to this end proprietors are invited to send their names, addresses, and the number
of shares they hold, to the committee of investigation, addressed to Mr. Wa. J. WHITE,
public accountant, Moira Chambers, 17, Ironnonger-lane, London, E.C.

public accountant, Moira Chambera, 17, Ironnonger-lane, London, E.C.

ORTUNA COMPANY (LIMITED).

Notice is hereby given that, in conformity with the Deed of Settlement, the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at the company's offices on THURSDAY, the 26th instant, at Two viclock P.M., To receive the accounts and balance-sheet, with reports from the directors, auditors, and superintendent, for the year ending December 31, 1862.

To elect two directors in the place of James Crosby and Richard Taylor, Esqs., who go out of office by rotation, but who are eligible, and offer themselves, for re-election. To spoolin two auditors for the ensuing year—James Thomas Dorington and William Cox, M.F., Esqs., offer themselves for re-election.

And for general business, as authorised by the Deed of Settlement.

At a MEETING of the directors held this day it was resolved—

"That a DIVIDEND OF THREE SHILLINGS AND FOUR PENCE PER SHARE be declared, PAYABLE on SATURDAY, the 28th instant, and that the transfer-books be closed for such dividend on the 18th, and re-opened on the 30th instant."

By order of the Board, J. B. COLOGAN, Sec. 6, Queen-street-place, Upper Thames—street, London, March 12, 1863.

INARES LEAD MINING COMPANY.—

Notice is hereby given that, in conformity with the Deed of Settlement, the HALF-YEARLY GENERAL MEETING of the shareholders in this company will be HELD at the company's offices, on THURSDAY, the 26th instant, at One c'oleck, To receive the accounts and balance-sheet, with reports from the directors and auditors, for the half-year ending December 31, 1862.

To elect three directors in the place of James Crosby, William Cox, M.P., and William Loftus Lowndes, Esqu., who go out of office by rotation, but who are eligible, and offer themselves for re-election.

To annoint two auditors for the engular year—Thomas Coxhead and F. J. Browwell.

themselves for re-election.

To appoint two auditors for the ensuing year—Thomas Coxhead and F. J. Bramwell, Eags, are eligible, and again offer themselves for re-election.

And for general business, as authorised by the Deed of Settlement.

At a MEETING of directors held this day it was resolved—

"That a DIVIDEND of FIVE SHILLINGS PER SHARE be declared on the PAIDIP SHARES of the company, PAYABLE on SATURDAY, the 28th instant, and that the transfer-books be closed for such dividends on the 16th, and re-opened on the 30th, instant."

By order of the Board, J. B. COLOGAN, Sec. 6, Queen-street-place, Upper Thames-street, London, March 12, 1863.

MONTES AUREOS BRAZILIAN GOLD MINING COMPANY (LIMITED).—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of shareholders will be HELD at the office of the company, no. 9, Broad-astreet-buildings, in the City of London, on Tuesday, the 24th of March, at Three o'clock precisely, to consider, and, if approved, to confirm, the following special resolution of the meeting of shareholders held on the 24th of February:—
"That the Articles of Association of the company be amended, by repealing the powers given to the Board of Directors, under Articles 19 to 162 inclusive, to purchase shares for the company."

By order of the Board, JUSTINIAN PELLY, Sed.

CONNORREE MINING COMPANY (LIMITED) At an ORDINARY GENERAL MEETING of the Connorree Mining Compa (Limited), held this day at their office, 46, Dame-street, Dublin, JOHN FRANCIS WALLER, Esq., LL.D., in the chair,

The following resolutions were passed:—
Proposed by the Charman, seconded by Edward Pottrell, Esq., and resolved:—
That the report and statement of accounts now read be received and adopted, and that the same be printed for distribution amongst the shareholders.
The Chairman having been moved from the chair, and John Pottrell, Esq., called

thereto, it was

Proposed by James M. Burke, Esq., seconded by John D'Arcy, Esq., and resolved:

That the best thanks of this meeting be given to the directors for their attention
the interests of the company, and to the Chairman for his very proper conduct in the chair this day.

F. W. GREENE, Sec.

chair this day.
46, Dame-street, Dublin, March 12, 1863. THE EAST AND WEST DOLBEBIN SLATE QUARRY

COMPANY (LIMITED), CARNARVONSHIRE.
OFFICES,—61, PRINCESS STREET, MANCHESTER.
Prospectuses, &c., may be had on application.
H. VAUGHAN, Sec. THE FRON LEAD MINING COMPANY (LIMITED),

Specimens of ore may be seen, and prospectuses and forms of application for shares of tained, at the offices, 61, Princess-street, Manchester. H. VAUGHAN, Sec.

THE POWELL UNITED SILVER-LEAD MINING COMPANY (LIMITED), CARDIGANSHIRE.

Specimens of the ore may be seen at the offices, 61, Frincess-street, Manchester, where also prospectuses and forms of application for shares can be obtained.

A. B. SPRIGG, Soc.

THE BROADWAY AND TYNTWLL COAL AND CANNEL COMPANY (LIMITED).

To be registered under the Joint-Stock Companies Act, by which the liability of abareholders is limited to the amount they each subscribe for. Capital £30,000, in 15,000 shares of £2 each. Deposit on application, 5s. per share, and 16s. on allotment.

Should any of the shares applied for not be allotted, the deposit will be returned in full. Directors.

To be chosen by the shareholders at their first meeting.

BANKERS—Union Bank (Limited), Manchester: North and South Wales Bank, Mold. SOLICITON—Francis Marriott, Esq., Norfolk-street, Manchester.

SECRETABLES (pro tem.)—Meesrs. Valughan and Sprigg.

TEMPORARY OFFICES,—61, PRINCES STREET, MANCHESTER, Where prospectuses and forms of application can be had.

TREGURTHA DOWNS AND OWEN VEAN CONSOLS
MINING COMPANY (LIMITED), NEAR MARAZION, CORNWALL.
Capital, £40,000, in 16,000 shares, of £2 10s. each.
Deposit, 5s. per share on application, and 15s. on allotment.
BANKERS.
Union Bank of London, Princes-street.
Messra. Vivian, Grylis, Kendall, and Co. Helston.
Messra. Nivian, Grylis, Kendall, and Co. Helston.
Messra. Bolitho, Sons, and Co., Fenzance.
"This property is admitted on all hands to be unsurpassed in the county."—Mining
Journal, Jan. 7, 1863.
Prospectuses, with full particulars, maps, reports, &c., may be had of Messra. DunsFORD and RANKEN, 9, Broad-street-buildings, London, and of the provincial brokers,
through whom applications for terms may be made in the usual form.

SOUTH PARYS COPPER MINING COMPANY (LIMITED).

See prospectus, reports, and opinions of the press of the South Parys Mining Company (Limited), formed for working 116 acres of the Great Parys Mountain, in the Isie of Anglesey. The adjoining mine has paid in dividends an average of £20,000 per annum for many years; and the South Parys set would have been worked long since, but during the lifetime of the late proprietor a mining lease could not be obtained.

Apply to the provisional secretary, Mr. F. W. Howrs, at the offices, 28, Cornhill, R. C., where prospectuses, reports, and opinions of the press can be obtained.

ST. JUST CONSOLS MINING COMPANY (LIMITED), IN THE PARISH OF ST. JUST, NEAR PENZANCE, IN THE COUNTY OF CORNWALL. Incorporated under the Joint-Stock Companies Act, 1862.

Capital £6000, in 6000 shares of £I each. Deposit on application 5s., and 5s. on allotment. No further calls to be made for twelve months.

DHECTORS.

EDWARD W. BURLS, Esq., the Villas, Erith.

HENRY L. PHILLIPS, Esq., 8, London-street, Fenchurch-street, London.

DAVID GRIMMETT, Esq., 2, King's-row, Walworth, London.

JOHN WARD, Esq. (firm of Ward Brothers), 56, Bartholomew-close, and lalinaton, London.

Islington, London.

WILLIAM C. FAUL, Esq., 56, Queen's-road, Bayswater, London.

(With power to add to their number).

BANKERS—Robartes, Lubbock, and Co., 15, Lombard-street, London; Batten, Carne, and Marrack, Pensance, Cornwall.

MANAGING AGENT—Capt. John Carthew.

PURSER—Mr. William Angwin.

AUDITOR—Charles Warwick, Esq., 25, Bucklersbury, London, E.C.

SECRETARS—Mr. Thomas Carthew.

OFFICES,-4, BARGE YARD, BUCKLERSBURY, E.C. The directors beg to call particular attention to the merits of this very valuable pro erty, convinced that it will bear the strictest investigation, and they refer with muc leasure to the following features in the undertaking, the importance of which cannot

be over estimated:—
The vendors of this valuable property take the whole of the purchase money in shares, thus identifying themselves in the success they are certain of obtaining.
No steam-engine will be required, water-power being abundant for all purposes. Chinery for dressing the ore is now in course of erection, and no time will be lost in preparing the same for market.

paring the same for market.

The prospects of the concern being of the highest order, no call will be made for twelve months; indeed, it is very possible it may not be required, the returns of ore helping materially the cost of development.

The management of the mines will be under the practical superintendence of Capt. John Carthew, who is so successfully developing the St. Just United Mines, in the same parish, and who has expressed the greatest confidence in the value of the St. Just Consols sett. The directors beg reference to his report, as also to those of George Henwood, Esq., F. G. S., and Capts. Floyd and Wearne, all of whom testify in the most unqualified terms of the value of the property. The weekly report of the progress of the mine will also be regularly published in the Mining Journal.

As the shares will, no doubt, soon command a high premium, immediate application

larly published in the Mining Journal.

As the shares will, no doubt, soon command a high premium, immediate application them will be necessary to secure an allotment, they being rapidly subscribed for. Prospectuses, with names of directors and officers, pian of workings, reports, and form application for shares, can be had of the secretary, Mr. Tuowas Carriew, at the temrary offices of the company, 4, Barge-yard, Bucklersbury, London, E.C.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE EAST ALFRED CONSOLS MINE.

IN RE EAST ALFRED CONSOLS MINE.

Description of the Benefit and Others, dated the 10th day of January last, BY FUBLIC AUCTION, at the Registrar's office, Truro, on Wednesday, the 26th day of March inst.,

at Twelve o'clock at noon,
40 (4096ths) SHARES of the defendant Thomas Barnett.
40 (4096ths) SHARES of the defendant John Hooper Harper; and
1 (4096ths) SHARES of the defendant William Youlten.
Of and in the said MINE.

HENRY SEWELL STOKES, Solicitor, Truro

(Agent for Roscorla and Davies, Plaintiff's Solicitors, Penzanco).

Dated Registrar's Office, Truro, March 12, 1863.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE ALFRED CONSOLS MINE.

1 O BE SOLD, pursuant to an Order made in a Cause Noell

5. Flood and Others, dated the 6th day of February last, BY PUBLIC AUCTION

14. the Registrar's Office, Trure, on Wednesday, the 25th day of March inst., at Twelve

o'clock at noon,

5 (4943ds) SHARES of the defendant John D. Flood.

3 (4943ds) SHARES of the defendant Henry Frederick Heisterman

9 (4943ds) SHARES of the defendant William Birkmyre.

5 (4943ds) SHARES of the defendant John Metcalfe; and

5 (4943ds) SHARES of the defendant Thomas Lee.

Of and in the said MINE.

HENRY SEWELL STOKES, Solicitor, Trans

HENRY SEWELL STOKES, Solicitor, Truro
(Agent for Rescoria and Davies, Plaintiff's Solicitors, Penzance).
Dated Registrar's Office, Truro, March 12, 1863.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

N the MATTER of the COMPANIES ACT, 1862, and of the N the MATTER of the COMPANIES ACT, 1862, and of the WHEAL ANNA MINING COMPANY.—Notice is hereby given, that APETITION for the WINDING-UP of the ABOVE-NAMED COMPANY by the Court was, on the 7th day of March inst., presented to the Vice-Warden of the Stannaries by Hugh Phillips, a contributory of the said company, and that the said petition is directed to be heard before the Vice-Warden, at the Registrar's office, Truro, on Monday, the 23d day of March inst., at Twelve o'clock at noon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two clear day's notice to the petitioner, his solicitor, or agent, of his intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esq., secretary of the Vice-Warden, Truro. Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same, from the petitioner or his solicitor, within 24 hours after requiring the same, on payment of the regulated charge per follo.

per folio.

Adiavits intended to be used at the hearing, in opposition to the said petition, must be filed at the Registrar's office, Truro, on or before Friday, the 20th day of March inst., and notice thereof must at the same time be given to the petitioner, his solicitor or agent.

S. T. G. DOWNING, Redruth

(Solicitor of the Petitioner).

J. T. BORETS, Turo

J. ROBERTS, Truro (Agent of the said Solicitor).

Dated Truro, March 9, 1863.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

N the MATTER of the COMPANIES ACT, 1862, and of the A STENCOOSE AND MAWLA UNITED MINING COMPANY,—Notice is hereby given, that ALL CREDITORS of the ABOVE-NAMED COMPANY are REQUIRED, on or before the 28th day of March inst., to SEND IN THEIR NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of THEIR SEVERAL CLAIMS on the said company, to William Michell, Equ., the Registrar of the said Courant Truro.—Dated Registrar's Office, Truro, March 9, 1863.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the NORTH PROVIDENCE MINING COMPANY.—Notice is hereby given, that ALL CREDITORS of the ABOVE-NAMED COMPANY are REQUIRED, on or before the 28th day of March inst., to SEND IN THEIR NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of THEIR SEVERAL CLAIMS on the said company, to William Michell, Esq., the Registrar of the said Court at Truro.

Dated Registrar's Office, Truro, March 9, 1863.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Devon.

N the MATTER of the COMPANIES ACT, 1862, and of the N the MATTER of the COMPANIES ACT, 1862, and of the DEVON GREAT ELIZABETH MINING COMPANY.—Notice is hereby given that ALL CREDITORS of the ABOVE-NAMED COMPANY are REQUIRED, on or before the 31st day of March inst, to SEND IN THEIR NAMES and ADDRESSES and the AMOUNTS and PARTICULARS of their SEVERAL CLAIMS on the said company, to William Michell, Eq., the Registrar of the said Court at Truro.

Dated Registrar's Office, Truro, March 12, 1863.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Devon

IN the MATTER of the COMPANIES ACT, 1862, and of the DUKE MINING COMPANY.—Notice is hereby given, that ALL CREDITORS of the ABOVE-NAMED COMPANY are REQUIRED, on or before the 31st day of March inst., to SEND IN THEIR NAMES and ADDRESSES, and the AMOUNTS and PARTICULARS of their SEVERAL CLAIMS on the said company, to William Michell, Esq., the Registrar of the said court at Truro. Dated Registrar's Office, Truro, March 12, 1863.

DURSUANT to a Decree of the High Court of Chancery, made in a Cause Hardy against Moore, the CREDITORS and also the INCUMBRANCERS on the REAL ESTATE of EDWARD HARDY, formerly of HUASCO, in the state of CHILI, in SOUTH AMERICA, but late of FAIRLAWN, in the township of SHAROW, and parish of RIPON, in the county of YORK, Esq., who died in or about the month of November, 1862, are, by their solicitors, on or before the 9th day of June, 1863, to COME IN and PROVE THEIR DEBTS at the Chambers of the Master of the Rolls, in the Roll's-yard, Chancery-lane, Middlesex, or in default thereof they will be peremptorily excluded from the benefit of the said Decree.

Friday, the 19th day of June, 1863, at Twelve c'olcek at noon, at the said chambers, is appointed for hearing and adjudicating upon the claims.

Dated this 6th day of March, 1863.

GEO. WHITING, Chief Cerk.

In Chancery.

THE VICE-CHANCELLOR WOOD AT CHAMBERS. IN the MATTER of the JOINT-STOCK COMPANIES IN the MATTER of the JOINT-STOCK COMPANIES
WINDING-UP ACTS, 1848 and 1849, and of the JOINT-STOCK COMPANIES
WINDING-UP AMENDMENT ACT, 1857, and of the SOUTH LADY BERTHA
COPPER MINING COMPANY.—By direction of the Vice-Chancellor Sir William
Page Wood, the Judge to whose Court this matter is attached, notice is hereby given
that the said Judge will PROCEED on Thursday, the 19th day of March, 1863, at
Twelve o'clock at noon precisely, at his chambers, No. 11, New-square, Lincoln's-inn,
London, to SETTLE the LIST of CONTRIBUTORIES of this company, and that after
such list shall have been settled no party affected thereby will be allowed to dispute
the same without leave of the High Court of Chancery first obtained.

R. P. HARDING, 5, Serie-astreet, Lincoln's-inn, and 3, Bank-buildings,
W. J. BARRETT, 8, Bell-yard, Doctor's-commons, Solicitor.

Dated this 5th day of March, 1863.

MESSRS. FULLER AND HORSEY are instructed to SELL, BY PRIVATE CONTRACT, a very powerful CORNISH PUMPING ENGINE made by Harvey and Co., the celebrated engineers, of Hayle, Cornwall, in 1854, for the did Wheal Vor Mine, situate about seven miles from the shipping port of Hayle. The diameter of the cylinder is 100 in., with 11 ft. stroke, equal beam, making on the average 5% strokes per minute. The quantity of water raised by each stroke is 16,266 galleps, on early 70,000,000 gailons in the twelve hours.

For further particulars, apply to Messrs. FULLER and HORSEY, Billiter-street, Lordon.

CORNISH PUMPING ENGINE.

ST. HELEN'S, LANCASHIRE. TO BE LET, ON LEASE, the EXTENSIVE
MANUFACTURING PREMISES known as the RAVENHEAD COPPER
SMELTING WORKS, situate at ST. HELEN'S, with a wharf on the canal, and a
branch of the St. Helen's Rallway rounding through the property.

The entire site is about 20 acres, of which about five acres are occupied by the works,
the remainder being availe and neature land.

The entire site is about 20 acres, of which about five acres are occupied by the worl the remainder being arable and pasture land.

The buildings comprise a series of very substantially erected, light, and lofty grounder factories, arranged for the purposes of copper and silver amelting works, but the will be available for many other large manufacturing establishments, as they possess to advantage of direct communication by rail or water carriage with all parts of the kingdo Coals can be obtained from pits in the neighbourhood at an almost nominal price, a labour is cheen and shoulant.

abour is cheap and abundant.

For particulars, apply to Messrs. Fuller and Honsey, 13, Billiter-street, London, E.C. and Messrs. Hannson and Finch, 2, Gray's Inn, London.

NORTHUMBERLAND-KNARSDALE MANOR

TO BE LET, the MANOR of KNARSDALE, containing 15,000 acres, the property of John Hope Wallace, Eq., of Featherstone Castle. According to a recent exploration and report, by an experienced viewer, the manor contains copper ore, lead ore, from ore (in various forms), frontaine—vix, nodules (argiliacous carbonates), blackband (containing, by Prof. Richardson's, of Newcastle, analyses, 50:63 per cent, of iron), barytes, limestone, and common clay, &c. The manor adjoins on the south the lead-producing district of Alston Moor. ad-producing district of Aiston Moor. ch on the Newcastle and Carlisle section of the North-Eastern Rail-

May runs through the manor, with a central station at Singgyford.
Mr. J. Bxwell, Burnstones, Knarsdale, Alston, will show the man manor may be seen, and any information obtained, on application to steward's office, Featherstone Castle, Haltwhistle, Northumberland.

Featherstone Castle, February 4, 1863.

MR. JOHN VOSPER WILL SELL, BY AUCTION, on Thursday, the 19th March inst., the whole of the MATERIALS on TAYY

ONSOLS, consisting of—
A WATER-WHEEL, 40 ft. high, 4½ ft. abreast, with iron axie and sockets; ONE ditto, 30 ft. high, 3 ft. abreast, with iron axie and sockets; ONE ditto, 14 ft. high, ft. abreast, with wrought-iron axie; ONE ditto, 9 ft. high, 10 in. abreast. Stamps with 8 heads, arenic mill (complete), an excellent grinder, drawing machine complete), balance, ahaft, and angle bobs, with brasses; 8 arm capstan, 80 fms. 6 in.

Stanps with a neads, arsent mit (complete), beliance, shaft, and angle bobs, with brasses; 8 arm capstan, 80 fms. 6 in. capstan rope, 40 ft. abears, with slieves, poppet head and pulleys.

10 fms. drawing 6 in. lift.

24 fms. 8 in. plumper ditto.

25 fms. 10 in. ditto, with 11 in. pole.

26 fms. 10 in. ditto, with 11 in. pole.

27 fms. 5 in. chain.

28 fms. 7 and 8 in. pumps.

29 fms. vood and pulleys.

100 fms. vood rods, with strapping plates, &c., complete.

100 fms. wood and fron bar ladders.

5 iron tram wagons.

6 in. chain.

6 years, so and micros irous and iron bar ladders.

5 iron tram wagons.

5 iron tram wagons.

6 iron tram wagons.

7 iron tram wagons.

8 iron tram wagons.

9 iron wood and iron bar ladders.

9 iron wood an

DUNDYVAN IRONWORKS AND OTHER PROFESTIES

FOR SALE.—There will be exposed to public sale, within the Faculty Hall, Glasgow, on Wednesday, the 18th day of March next, at Two o'clock afternoon (unless previously disposed of by private bargain),

Lot 1.—The DUNDYYAN PIG and BAR IRONWORKS, situated near Coatbridge, in the county of Lanark, comprising:—

1.—The PIG IRONWORKS, consisting of EIGHT BLAST FURNACES, TWO BLAST ENGINES, MACHINERY for FILLING, RAILWAYS, WEIGHING MACHINERS, CLAY MILL, and all the usual working conveniences, with an EXTENSIVE FOUNDRY, MECHANICS' SHOPS, STEAM ENGINES, and FIXED MACHINERY, counting-house, warehouse, stables, &c.

2.—The BAR IRONWORKS, consisting of FORTY-FOUR PUDDLING FURNACES, with a SHIROLING MACHINERY, and THERE TRAINS of ROLLS for making puddle and other unfinished bars. Also, FIVE FINISHING MILLS, consisting of THREE BAR MILLS and TWO PLATE MILLS, driven by STEAM ENGINES and suitable machinery, with TWELYE HEATING FURNACES, saws, shears, and other usual fixed apparatus; also, MECHANICS' SHOPS, TURNING LATHES, BUILDINGS, SHEDS, RAILWAYS, and all usual working convenience, the whole being capable of turning out 350 tons of finished from weekly, consisting of plates, rails, and bars in great variety.

3.—ONE HUNDRED AND FIFTY-FOUR WORKMEN'S DWELLINGS, known by the names of "Long Row," "English square" and "Stone Row."

4.—The LANDS of DYKE, with FALM BUILDINGS, STEAM ENGINE, THRESHING MILL, RAILWAY, &c., thereon.

The above subjects extend to about 35 acres imperial, and the MINERALS therein will be included, in so far as belonging to the exposers, with the MACHINERY, FITTINGS, and FIXED LANT, at DUNDYVAN PIT.

5.—The MINERALS held in lease, consisting of DRUMPELLER, SOUTERHOUSE, and DALEILL RONSTONE, with the whole MACHINERY, FITTINGS, RAILWAYS, and FIXED PLANT at thereby, and in the bind acres, or favourable terms, of the valuable ironstone in the estate of Arden, extending to 100 acres, or thereby, and in the binds and the property and the property and the property and the

MACHINERY, FITTINGS, RAILWATS, and trace the continued of the continued of

Office and Software States and Software and Software Soft

of £55.000; and if soid separately, Lot 2 will thereafter be exposed at the upset price of £8000.

Lot 3.—The MINERALS in the LANDS of CUPARHEAD (about 21 imperial acres in extent). These are believed to contain, entire, the whole seems known in the district. The exposers have a lease of the surface of the lands, which, with the landlord's consent, may be assigned to the purchaser of the minerals. Upset price, £2500.

Lot 4.—The ONE HUNDRED AND TWENTY-EIGHT WORKMEN'S DWELLIKOS situated in Buchanan-street and Poker-row. Upset price, £3500.

For further particulars, apply to Messrs. AITKEN and MACKENZIE, accountants, Glasgow; Wessrs. MackenZie and Moore, mining engineers there; Messrs. Milville and Lindesay, W.S., Edihoujet, Messrs. Moorniers, Patrason, Fornes, and Barr, writers, Glasgow; or Messrs. Barnatines and Kirkwood, writers there; the last of whom will exhibit the titles and articles of roup.—Glasgow, January, 1863.

DINAS FIRE-BRICKS.—Messes. FREDERICKS AND JENNER beg to offer these well-known bricks, either at their Dinns Bridge or Kidwelly Works, and can safely recommend them as EQUAL, if not SUPERIOR, to ANY FIRE-BRICKS MANUFACTURED, having the highest testimonials from the largest copper smelters and consumers in the world.—Full particulars, with testimonials, prices, &c., can be had on application to their agent, Mr. George Young, Briton Ferry, South Wales; the Dinns Bridge Brick Works, Glyn Noath; Kidwelly Brick Works, Kidwelly; or Messrs. Eastwood, Belvidere-road, London.

TO COLLIERY PROPRIETORS, CAPITALISTS, AND OTHERS.—TO BE DISPOSED OF, BY PRIVATE CONTRACT, the COAL, IRONSTONE, and OTHER MINERALS, UNDER the ESTATE of the late George Silvester, of West Brownich, Staffordshire, consisting of about FIFTY ACRES. An adjacent colliery has worked up to less than 100 yards of the estate, the seam being very thick, and of superior quality. The Great Western Railway runs through the estate, and it is within a few hundred yards of the canal.—For further particulars, apply to Mr. THOMAS SILVESTER, West Bromwich; Mr. Bartleft, solicitor, 22, Waterloo-street, Birmingham; Mr. A. S. SILVESTER, 51, St. Paul's-square, Birmingham; and Mr. J. B. SILVESTER, West Bromwich.

WATER WHEEL FOR SALE, 30 ft. by 3 ft., all iron, except wooden arms and lining of rim. Only been in use a few months. Also, a LEAD or COPPER ORE CRUSHER TO BE SOLD, a bargain.—For further particulars, apply to A. Oversigned, Leek. ars, apply to A. OVERFIELD, Leek.

FOR SALE, THREE STEAM BOILERS, 60 horse power each, on the Cornish plan, with domes on, by Hick and Sons, of Bolton, working at 40 lbs. pressure, under inspection of the Manchester Association for Prevention of Explosions. TWO 50 horse ditto, TWO 40 ditto, and THREE 6 30 ditto. ONE 70 in. PUMPING CONDENSING BEAM ENGINE, ONE 48 in. ditto, and ONE 46 in. DIRECT ACTING HIGH PRESSURE and CONDENSING PUMPING ENGINE, with BOILERS, &c., complete. The above articles are in good working order, and will be sold cheap, as in some instances their room is required for other purposes.—Apply to J. P. Forster, Queen's Chambers, Market-street, Manchester.

SALE OF BASTIER'S CHAIN PUMP PATENT. Mr. J. U. BASTIER'S CHAIN PUMP PATENT.—
Mr. J. U. BASTIER is DESIROUS of FINDING a PARTNER for CONTINUING the DEVELOPMENT of his ENGLISH PATENT for his CHAIN PUMP, or he is WILLING to SELL the ENTIRE or PART of HIS INTEREST therein. He proposes to grant four exclusive licenses for the full term of the patent, for England, Scotland, Iroland, and Wales respectively:—
For the license for England, he demands the sum of £2000 for the unreserved transfer, or £1000 if 25 per cent. of the nett profits be secured to him.
For the license for Scotland, he demands £1500 for unreserved sale, or £750 with 25 per cent. of profits.
For the license for Ireland, he domands £1400 for unreserved sale, or £700 with 25 per cent. of profits.
And for the license for Weles he damends £1500.

rofits.
blicense for Wales, he demands £1200 for unreserved sale, or £500 with

25 per cent. of profits.
Address, J. U. BASTIER, C.E., 47, Warren-street, Flizroy-square, London. 104

A SSAYS AND ANALYSES OF ORES, METALS
MANURES, &c., on the most moderate terms, and with the utmost accuracy
List of fees per post, on application.
JOHN LONGMAID, CITY LABORATORY AND ASSAY OFFICE,
31, THROGMORTON STREET, E.C.

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A N VU A L M I N I N G R E V I E W F O R 1862.—

PETER WATSON'S "Weekly Mining Circular and Share List," synopsis of Cornish and Devon Mines, &c., contains, in No. 249, vol. VI., of Friday, 2d January), a Review for the last year on the following Mines, viz.:— Keity Bray.

Devon Great Consols. Wheal Edward.
Wheal Trelawny. Caradon Consols. Wheal Trelawny.
North Downs. St. Day United.
Hingston Down. Penhalis. Wheal Harrlett.
Bedford United. West Caradon. Great Wheal Busy.
Gawton Copper Mine. Wheal Builer. North Builer.

East Rosewarne. Bryn Gwlog. Great Brigan Mine, &c.

The "Weekly Circular" of Friday, the 9th of January, No. 250, Vol. VI.) contains a REVIEW on the FOLLOWING MINES:—

North Roskear. Carn Brae. Clifford Amalgated. Herodsfoot. Tincroft. Calvadnack. Ciljah and Wentworth. Drake Walls, &c.

The "Weekly Circular" of Friday, the 16th January, No. 251, Vol. VI.) contains a EVIEW on the FOLLOWING MINES:—
Wheal Stown Wheal Ludcott.
East Basset.
Lady Bertha.
West Tolgus.
Marke Valley.
Wheal Margaret.
Wheal Uny.
West Wheal Basset.

The "Weekly Circular," of Friday, the 23d of January (No. 252, Vol. VI.), contains EVIEW on the FOLLOWING MINES:—

Par Consols. on the FULLOWING MINES: — Par Consols.

The Brea. Great Wheal Vor. West Wheal Seton.

Inlon. Haye Valley Mine, Wheal Reeth.

Squr. West Stray Park. South Crofty.

I Hill & Ransom East Pool. West Fowey.

And information on Ludcott, Calvadnack, Caradon United, &c. East Carn Brea, Wheal Union, Wheal Agar. Rosewall Hill & Ransom

The "Weekly Circular" of Friday, the 30th of January (No. 253, Vol. VI.), contains REVIEW on the FOLLOWING MINES:—Afred Consols.

Weat Wheal Frances.
Wheal Tremayne.
Wheal Crebor.
Wheal Crebor.
Wheal Hearle.
And Information on Wheal Builer, Wheal Grylls, West Caradon, East Basset, &c.

The "Weekly Circular" of Friday, the 6th of February (No. 254, Vol. VI.) contains a EVIEW on the FOLLOWING MINES:— Gurlya. Craddock Moor.
Wheal Grenville. East Grenville. Wheal Unity.
West Sharp Tor. Great Retallack. West Trevelyan.
And information on Wheal Arthur, Drake Walls, East Carn Bres, Wheal Agar, &c.

The "Weekly Circular" of Friday, the 13th of February (No. 255, Vol. VI.) contain FULL PARTICULARS of—

216 and Mines,
Wheal Grylls.
East Russell.
Wheal Arthur.
Wheal Seton, &c.
Mr. Peren Warson has returned to town from visiting several mines in Cornwal and Devon during the past two weeks.

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### Paid. Last Pr. Business. Dividends Per Share. Last Paid. 1000 Alderley Edge (Cheshire) [L.]*	400 Baldwin, I. of Man [L. £5] 2 5 0 3½ Jan. 1863 1624 Balleswidden (tin). St. Just 14 8 7	6000 North Kit Hill (tin, copper) 0 2 6
200 Hotallack (tin, copper), St. Just	10000 Bampfylde (copper), Devon. 1 0 0. — Aug. 1860 30000 Barmouth Cons. (cold) [L.£1] 0 5 0. — Aug. 1862 4000 Bedford Consols (copper) 2 6 0. — Feb. 1863 2000 Berehaven (copper), Ireland. 1 0 0. — Feb. 1863 2000 Berehaven (copper), Ireland. 1 0 0. — Jan. 1863 2148 Boscawall (L.£30) 28 0 0 20 18 20 Jan. 1863	32 No. Pool (tin & cop.), Illogan 125 0 0
266 Copper Hill (copper) Reference 48 0 0. 95 91 0 0. 21 0 0 - Feb. 1862 12000 Copper Miners of England 25 0 0 - 7½ per cent. — Half-yrly.	2280 Boscundle(tin,cp.),8t. Austell 7 10 0 — Sept. 1862	700 N. Hoskear(cop.), Camborne . 21 5 0 . 62\foralle{4} . 49 51 . Jan. 1863 6000 N. Trelether(sil., cp.), Pactstow 1 0 0
512 Creegbrawse and Penkevil, St. Colomb	12000 Brea Con. (tin), St. Ives [L.30s.] 1 7 6	6144 N. Wh. Robert, Samp. Spiney 2 12 11. — July, 1861
1024 Devon Gt. Con. (cop.), Tavist.* [S.E.] 1 0 0	4000 Brookwood (cop.) Ashburton 1 12 6. —	4108 North Wheal Trelawny (lead) 3 11 6. —
12800 Drake Walls (tiu, copper), Calstock 2 1 0 214 218 2% 0 16 6 0 1 6—Feb. 1863	1960 Bryntail, Lianidices, Montgo. 7 10 6. —	800 Pant-y-Buaith (id.) [L. £10]. 7 0 0
512 East Bassot (cop.), Redruth [s.E.]*. 29 10 0. 90 80 85 106 0. 1 0 0 -Jan. 1863 6144 East Caradon (copper), St. Cleer [s.E.] 2 14 6. 47 4 44 5 5 17 6. 1 0 0 -Jan. 1863 300 East Darren (lead), Cardiganshire* 32 0 0. 84 10 0. 1 0 0 -Oct. 1862 128 East Pool (tin, copper), Pool, Illogan . 24 5 0 0. 82 5 0 0. 5 0 0 -Feb. 1863 2800 Foxdale (lead) Isle of Man [L.] . 25 0 0 . 9	200 Burra Surra (cop.), Renwyn. 2 10 0	5000 Pendeen Consols, St. Just 3 17 0 6145% 618 April, 1863
1798 Great Wheal Fortune (tin), Breage 18 60. 37½. 37 38 3150.0 15 0.—Feb. 1863 5908 Great Wh. Vor (tin. p.), Helston (S. E. 140. 0. 0. 712. 7.714. 3. 2. 6. 0. 5. 0.—Sept. 1863	75000 Camborne Vean & Wh.Francis 8 14 4	5000 Penhalis (tin), St. Ann's 14 0
1024 Herodsfoot (1d.), near Liskeard [S.E.] 8 10 0. 49 . 47 49 . 21 10 0. 1 15 0—Oct. 1862 1000 Hibernian Mine Company	4046 Caradon Hill (copper) 2 1 6	6400 Prideaux Wood (tin,cop.) 3 14 0
9000 Marke Valley (copper), Caradon 4 10 6 834. 814 9 2 6 6 0 2 6—Jan. 1863 1800 Minera Mining Co. [L.], (id.), Wrexham 25 0 0 — 107 18 0 8 0 0—Feb. 1863 640 Mount Pleasant (iead), Moid 4 0 0 — 18 18 1 0 7 6—Aug. 1862 5936 North Treskerby (copper), St. Agnes. 1 9 0 374 0 4 6 0 1 6—Feb. 1863	2000 Carmarchen United (lead)	5000 Rhafna (lead) [L. £1] 0 6 8.
640) Par Consols (copper), Alglesey [E.]. 50 00. —	20000 Carrysfort[3200 £2½ pd., 16800 £1 pd.]	4096 Rosewarne United (cp., tin) 3 8 9 34 1 Nov. 1865 5000 Round Hill (cop., tid.), Salop 2 5 6
6000 Rosewali Hill and Ranson United 2 16 0	2500 Ceft Clicen (lead), Flintshire. 2 1 0. —	12000 Silver Moun. (lead) [L. £2] . 2 0 0
5000 South Exmouth (lead), Christow 1 0 0 68 65 67% 73 10 0 1 0 0	787 Ciljah & Wentworth (tin, cp.) 30 15 0	6000 Smith's Wood (tin,ep.) [L.£2] 1 18 0 Dec. 1863 600 Snowbrook (sil. lead) [L.£5] 4 0 0 612 South Basset (cop.), Gwennap 15 10 8. 8 7 8 Feb. 1863 100 South Bryn Gwiog (load) 7 0 0
280 Spearne Moor (tin, copper), St. Just. 31 17 9 9 15 0 1 0 0 June, 1862 910 St. Ivos Consols (tin), St. Ivost 8 0 0 486 0 0 0 10 0 Nov. 1862	861 Crane (copper), Camborne	6400 So, Buller & W. Fenstruthal. 0 12 0 May, 1860 4096 S. Caradon Wh. Hooper(cop.) 3 9 0 Feb. 1863 6000 So, Carn Brea (cop.) [S.E.]. 6 15 0 4%, 4¼ 4½ Feb. 1883 6138 S.Condurrow (tin, cp.), Camb. 2 8 0 Dec. 1862
4200 Vigra and Clogau (copper) [L. £5] . 2 15 0. 28 . 26 28 . 4 12 6. 1 0 0—0et. 1862 6000 West Basset (copper), Illogan [8, E.] . 1 10 0 13 14	1000 Crelake (cop.), Tavistock	2288 Son. Crenver (cop.), Crowan. 11 14 0
8400 West Fower Consols (tip and copper), 7 10 0	1800 Cwmbrane, Carmar, [L. £2] 2 0 0. —	5000 South Gorlack (tin), Crowan. 0 2 6
400 W.Wh. Seton (cop.), Camborne [8,E.]* 47 10 0, 270 265 275 373 0 0, 5 0 0—Feb. 1863 512 Wheal Basset (copper), Higgan* [8,E.] 5 2 6 75 72½ 77½ 6 592 10 0 1 0 0—Feb. 1863 1000 Wheal Basset and Grylls (tin) 7 0 0 27 28 1 0 0 1 0 0—Dec. 1862 2900 Wh. Cillford Amalgamated (co.), Gwen 30 0 0 21 21 21 22 28 6 0 7 5 6—Dec. 1862	12000 Deep Level, Minera [L. £5] 3 5 0 1200. 1802 12000 Dev. New Copper Co. [L. £2]	2000 South Grylla (copper) [L. £10] 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
4800 Wh. Ludcott and Wrey (lead), St. Ive. 2 10 8 7 4 736, 756 3 2 0 1 0 0—Dec. 1862	4566 Devon Wheal Buller (copper) 4 10 0	5425 So. Phonix (cop.) Linkin
1024 Wh.Mary Ann (id.), Menheniot[8.E.]† 8 0 0 17 16 17 66 17 6 0 10 0—Dec. 1862	4000 Dulta (tin) [L.£1] Fully paid. 1000 Eaglebrook (lead) [L.£20]. 16 0 0 Fob. 1863 4096 East Alfred Consols (copper). 6 0 11 Dec. 1862 3000 E. Beam (tin), 8t. Aus, [L.£2] 1 7 0 Jan. 1863 4096 East Brookwood (copper). 1 5 0 Jan. 1863	1024 S. Wh. Ellen (cp.), St. Agnes 9 18 2
128 Wheal Frosper (tin), Lanivet	6000 East Carn Brea (cop.) Redruth 3 15 0. 9 %. 9 9 % . Feb. 1863 2000 East Chiverton (lead) 1 0 0 5 6 5 5 5 6	1024 8. Wh. Lovell (tin), Wendron 1 10 7
MINES WITH DIVIDENDS IN ABEYANCE. 700 Aberdovey (silver-lead), Merioneth 1 10 0 0 10 0 0 10 0-Mar. 1859	4000 East Devon Gt. Consols (cop.) 1 9 0 Jan. 1863	15000 St. Cuthbert Ld. Smelt. [L. £5] 1 0 0
200 Cem Cwin Frwyno (tead), Cardigansa, 33 0 0 9 0 0 4 0 0—April, 1861 256 Condurrow(cop.,tin), Camborno 35 0 0 85 0 0 2 0 0—June, 1857 2450 Cook's Kitchen (copper), Illozan 17 0 9 29 2414 2714 1 7 0 0.7 0—May 1869	2018 E. Falmouth (sld.), Konwyn 4 0 6 — Mar. 1863 6000 E. Granville (cop.), Camborne 1 12 0 2½47s. 49s Feb. 1863 4000 E. Gunnis Lake & S. Bedf. (cp.) 7 1 0 — Jan. 1863 6145 Fast Jang (dl. 4d.), Cardibone 1 13 0 — 244 3 Mar. 1863	6000 St. Just (tin & cop.) [L. 2\(\delta_1\)] 2 0 0
4076 Devon and Cornwall (copper)	1024 E. Margaret (tin), Uny Lelant 18 5 0	6000 Tolearne (cop.), Camborne . 1 8 0. —
100 Great work (tin), Germoe	5610 East Seton (cop.), Camborne 0 7 0	1024 Trencrom (tin), Uny Lelant. 12 2 3. —
470 Newtownards Mining Co., Co. Down. 50 0 0	1100 E. Wheal Agar (cop.), St. Cleer 9 12 0	2048 Treworlis (tin), Wendron
1260. Good Tolvadden (copper), Marazion 1 0 0 1 0 0 0 2 0 0 0 0 1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4000 E. Wh. Russell, Tavis. (S.E.) 8 1 6. 5 3 4. 4 5 5 Feb. 1863 10000 Ely Merthyr Col. (L. £2 10s.) 1 5 0. —	6400 Tyne Head (id., cop.) [L. £1]. 0 14 0. 1 Oct. 1862 800 Tynewydd(allid.), Cardigan. 0 5 0 Dec. 1861 1094 Tyringham Consols (in) 2 0 0 Oct. 1861 20000 Vale of Towy (lead), Carmar. 0 15 6 6s. 7s Jan. 1863
1024 Wendron Consols (tin), St. Ives 12 10 0	114 Garden (tin), Morvah 25 0 0 Feb. 1862	4000 Wentnor [L. £2½] (lead) . 2 2 0
128 Wheal Friendship (copper), Devon . 50 0 0	1024 Gelliffowlier (id., Holywell 1 2 6 5 5 5	1218 W. Condurrow(tin,cop.), Cam. 7 16 3
512 Wheai Jane (silver-lead), Ken 3 10 0 3 10 0	Gogman (silvid.) [1900.£1274, 2999.£1]	6000 W. Grylls (tin), Perranuthnoo 0 2 6
FOREIGN MINES. 2464 Burra Burra (cop.), South Australia. 5 0 0 300 0 0 5 0 0-Oct. 1862	4 1 0 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1600 W. Rose Down (cop.), Caradon 6 12 6. 14 . 12 14 . Jun. 18:3 236 West Sharp For(cp.) Rilliaton.146 0 0
6000 Central American (silver) [L.] 5 0 0 2 2 9 0 14 6-Oct. 1862 12000 Cobre Copper Co. (cop.), Cuba (S.E.] 40 0 0 23 98 12 0 1 0 0—Jan. 1862 12000 Coplapo Mining Company, Chili [S.E.] 16 0 0 6 18 0 0 10 0—Nov. 1862 15000 East Indian Coal, Galciutta [L.] 10 0 0 746 per cent. — Yearly.	30000 Grent North Tolgus [L. £1] 0 12 0 —	5120 W.Tolvadden (cop.), Marazion 1 18 6
70000 English and A straillan [S.E.]	3730 Great Wheal Baddern (tin). 6 6 0	512 West Wheal Frances, Illogan 79 15 0. . Feb. 18/3 10000 West Wheal Jane (tin, &c.)3 3 6. Jan. 18/3 1024 West Wheal Lovell, Wendron. 2 13 8. Mar. 18/3 6000 Wheal Agar (copper), Illogan 3 14 0. Nov. 18/2
109815 Marianita and New Granada [8 P] 1 0 0	6068 Gwydyr Park Con., Llanrwst 0 19 0 Feb. 1868 6400 Harwood (ld.), Durham [L.£1] 0 5 6 158	1024 Wh. Anna (Id., blende), Perranz. 0 13 6
100000 Port Phillip (gold), Clunes (S.E.] . 1 0 0. 1½ . 0 9 6. 0 1 6—July, 1859 11000 St. John del Rey (L.), Brazil (S.E.), 15 0 0. 55 . 54 15 0. 4 0 0—Dec. 1862 43174 Unit. Mexican(sil.), Mexico(S.E.] Av. 28 5 0. 6 5 6 2 1 6. 0 5 0—Oet. 1862 70000 West Canada Mining Company [L.] . 1 0 0	1000 Haye Valley (tin), Callington) 0 4 0	6000 Wheat Crebor (cop.), Tavistock 1 3 6 1 .1½ 1½ .Feb. 1.863 512 Wh.Damsel (cp., tin), Gwennap 31 3 6
FOREIGN MINES WITH DIVIDENDS IN ABEYANCE.	6000 Illogan (tin and copper) 0 5 0 . 134 .136 114 July , 1862 40 Imperial Eliver-Lead, Dolgeily 65 0 0 — Jan. 1862 6000 Keswick (lead), Portinscale 5 6 6 — Mar. 1862 6000 Lady Bertha (cop.) [8.E.] . 2 5 6 1 % 1dan. 1863 963 Lelant Cons. (tin), Uny Lelant 34 0 0 — Sept. 1862	2000 Wheal Falmouth & Sporries 3 10 0 Feb. 6000 Wh.Grenville (copper) [S. E.] 7 15 0 5% 5½ 5½ 5¾ Nov 5120 Wheal Harriest, Camborne 4 6 6 3% 3% 3% May, 1882
10000 Gt.Barrier Land, Min., &c., N. Ze. [L. £5] 4 10 0	1019 Leeds & St. Aubyn (tin,cop.) 16 4 4	1024 Wheal Emily Henrietta (cop.) 7 10 0
Shares. Mines. Paid, Last Pr. Bus, done. Last Call. 20000 Australian (copper), South Australia [S.E.] 7 76 Sept. 1858 20000 Beariz (tin) [L. £1] 0100 0 0 0 1870 0 0 0 0 0 0 0 0 0	10000 Lower Taldrws [L. £21/6] 1 10 0	8000 Wh. Norris (tin,cp.),St.Cleer 2 15 7
75000 Bon Accord, South Australia (copper) [L.£1] [S.E.] 1 0 0 3/6 3/6 1862 1862 1862 210 0 3/6	3475 Michell (lend), Flint 0 3 6	970 Wh. Prosper (op., tin), Breage 12 10 0
1000 Bon Accord, Nouth Australia (copper) [L. £1] [S.E.] 1 0 0 3/2 1000	1024 Nangiles (tin, copper), Kea. 12 0 0 8%7% 8% Dec. 1662 50 Nanteos (slild.), Lianbardan Jan. 1862	1024 Wh. Sicily(silid.), Broadoak 4 17 6
25000 East del Rey, Brazii [L. £3] 1 0 0 % % Fully paid. 30000 East Kongsberg Native Silver Mining Co. of Norway [L. £5] 1 7 6	All Sant Minera [L. £20]	512 Wh. Trannack (tin), Sithney 3 0 0 Oct. 1862 1932 Wh. Tremaynet (tin), Gwinear 13 2 6
1 0 0 - 1	6000 New E. Birch Tor and Vitifer	4096 Wh. Uny (tin, cop.), Redruth 9 3 6 74634 74Sept. 1882 4500 Wheal Vlow
4000 Hope Silver-Lead and Copper Mining Co. [L.], Jamaica 25 0 0	6000 New Wendron (tin)	6000 Wheal Welcome (tin,copper). 1 0 0
2000 New Burra Burra (Australia)	400 New Wh. Seton) cop.), Camb. 21 10 0	MISCELLANEOUS.
	20000 North Devon (silid.) [L. £1] 0 10 0 —	10000 Anglo-Mexican Mint 10 0 0 19Fully paid.
Section South Australia L. £1 S.E. 0 17 6 54 5000 Nova Scotia (land and gold) [L. £2] 1 0 0 0 17 6 54 1600 Pachuca Silver Mining Company, Mexico [L. £1] 0 15 0 0 0 0 0 0 0 0 0 0	1000 North Fortescue (copper) 1 14 0	90000 Metrop. Rail, Carriage, &c
10000 Vancouver (coal) [1, £10]	*, Those mines with [S.E.] appended have been admitted on the Stock E Limited !	liability.
1,2000 Wheal Elion, South Australia [f]	information. Reports from mines—in fact, mining intelligence of every	holders, as well as those efficially connected with the mines, we appeal for description, forwarded to our office, will meet ready attention.
45000 Yudanamutana (copper), South Australia [L.] [S.E.]	London ; Printed by Richard Middleton, and published by Hunny English munications are requested to be ad	(the proprietors), at their office, No. 26, Flerer Street, E.C., where all cour- ressed.—March 14, 1863.